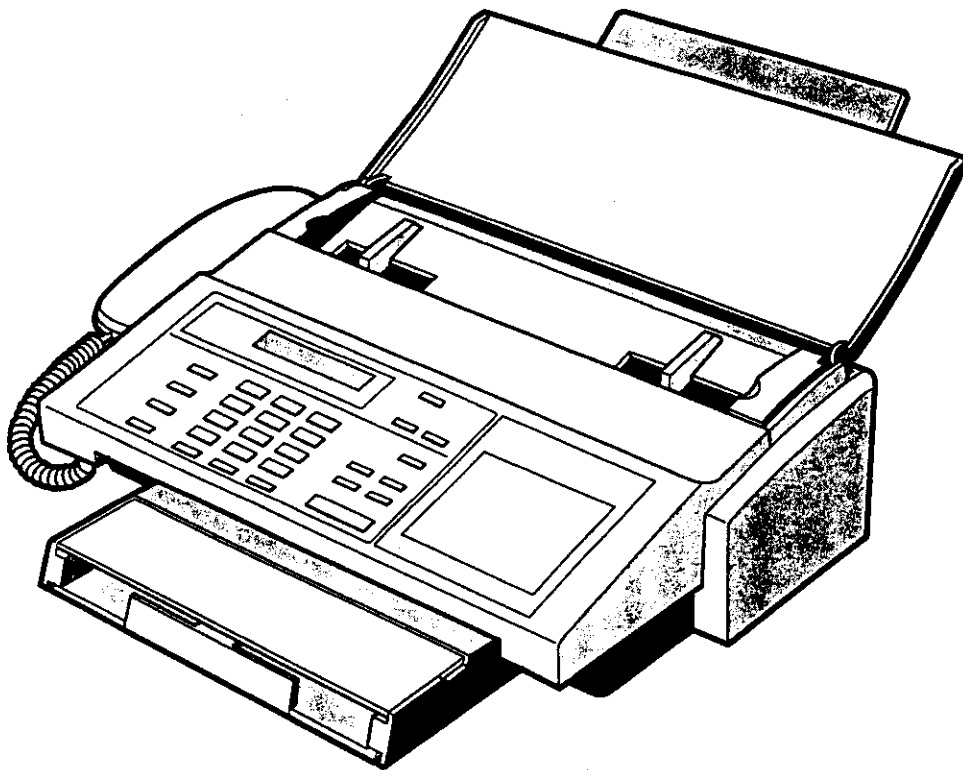


Facsimile

Panafax® UF-321

Model No. UF-321

User's Guide



IMPORTANT INFORMATION

When requesting information, supplies, or service always refer to the model and serial number of your machine. The model and serial number's plate (Main Name Plate) is located on the machine as shown below. For your convenience, space is provided below to record the information you may need in the future.

Model No. UF-321

Serial No.

Date of Purchase

Dealer

Address

Telephone Number

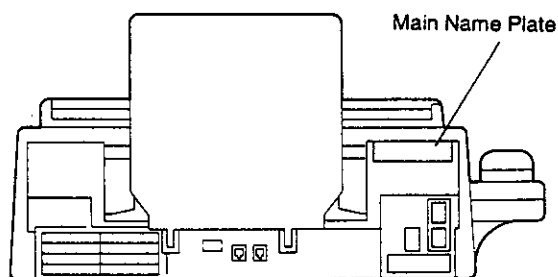
() -

Supplies Telephone Number

() -

Service Telephone Number

() -



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The contents of this User's Guide are subject to change without notice.

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Thank you very much for purchasing the Panasonic PRO LINE UF-321.

The **UF-321** is one of the most advanced models in the Panasonic PRO LINE series of G3 compatible, desktop facsimile machines.

Some of its many features are

- 1. Plain Paper Printing** Plain paper printing means you can easily write on received documents with a pen or pencil. Documents do not curl, making filing easier. In addition, plain paper does not fade, making it ideal for long term storage of important documents.
- 2. Easy Maintenance** Maintenance requires only changing a print cartridge, making it quicker and easier than with other types of plain paper fax machines.
- 3. Memory Function** A standard image memory feature allows you to store up to 12 standard pages into the document memory. After the **UF-321** stores your documents, it can send them to selected station(s) automatically. You do not have to wait until the transmission ends before retrieving your originals.
- 4. Fax / Telephone Auto Switch** The **UF-321** differentiates between an incoming fax or voice call and automatically switches the circuit to either receive a document or to ring until you pick up the telephone. With the **UF-321** you do not require a separate telephone line for your fax.
[Note : For some countries, this feature is not available because of the country's regulation.]
- 5. TAM Interface** A Telephone Answering Machine (TAM) can be connected to the **UF-321**. The **UF-321** determines whether the signal from the calling side is a fax or voice call. If it is a fax, the **UF-321** will switch the telephone line to start the fax communication. If a fax signal is not detected, the **UF-321** will stay in the TAM mode and the caller can leave a message.
[Note : For some countries, this feature is not available because of the country's regulation.]
- 6. 64 level Panasonic Super Gray Scale** The **UF-321** offers a 64-level Super Gray Scale using Error Diffusion technology. Switching to this mode assures clear, realistic reproduction of photographs and text, brochures, and illustrations.
- 7. Panasonic Super Smoothing** The **UF-321** incorporate's a new sophisticated Image processing technology to enhance the print quality of an ordinary received fax image by smoothing out the curving edge of a character to reproduce a high quality document.
- 8. Selective Reception** To prevent unwanted faxes being received by comparing the ID Number of the transmitting machine with the telephone number stored in the built-in automatic telephone dialer.

With a little practice, anyone can learn how to use the most popular features of the **UF-321**.

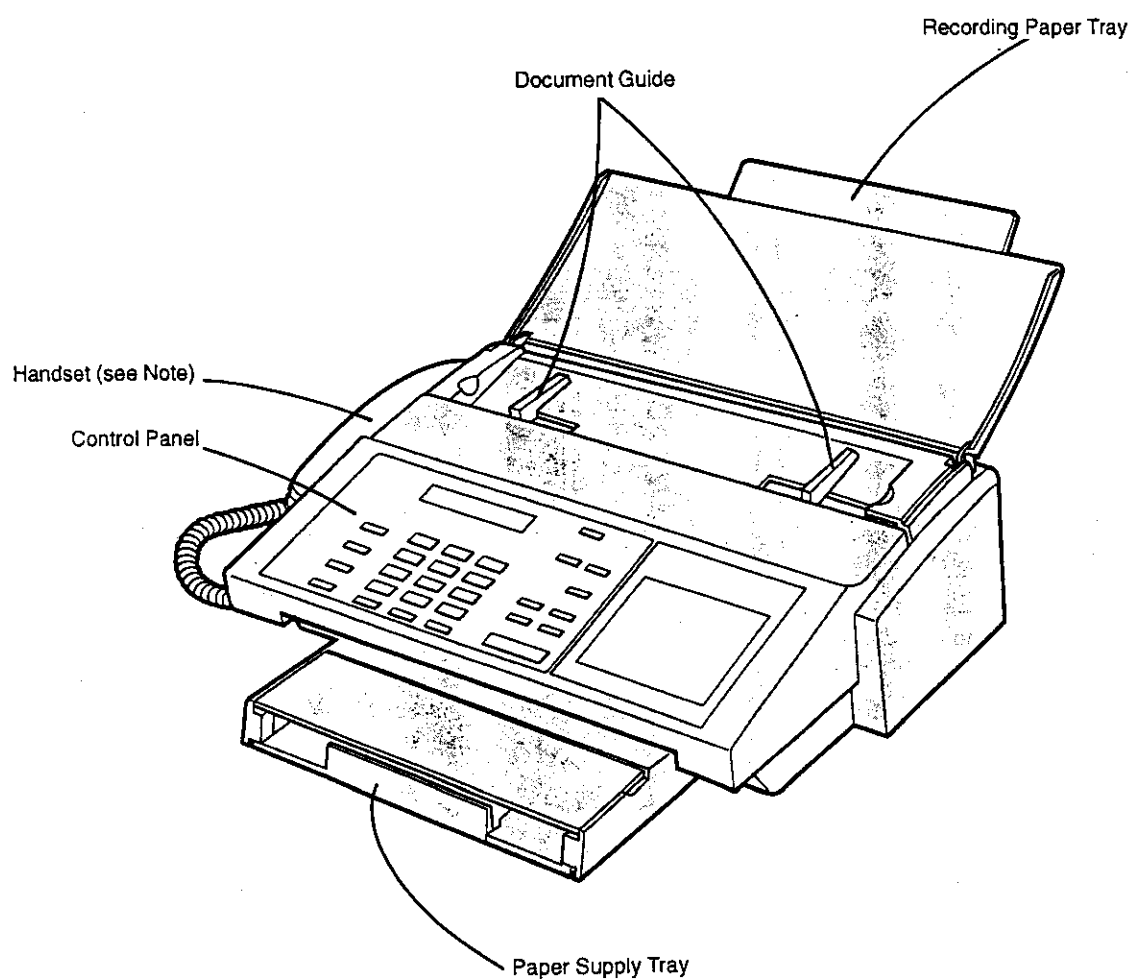
This User's Guide will help you to use your **UF-321** quickly and easily. The Table of Contents shows where to find information on each feature. Although we recommend that you review each section briefly, it will only be necessary to read the sections that contain the feature(s) you will be using.



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External View

1



! **Note:** For some countries, the handset is not attached because of the country's regulation or specification.

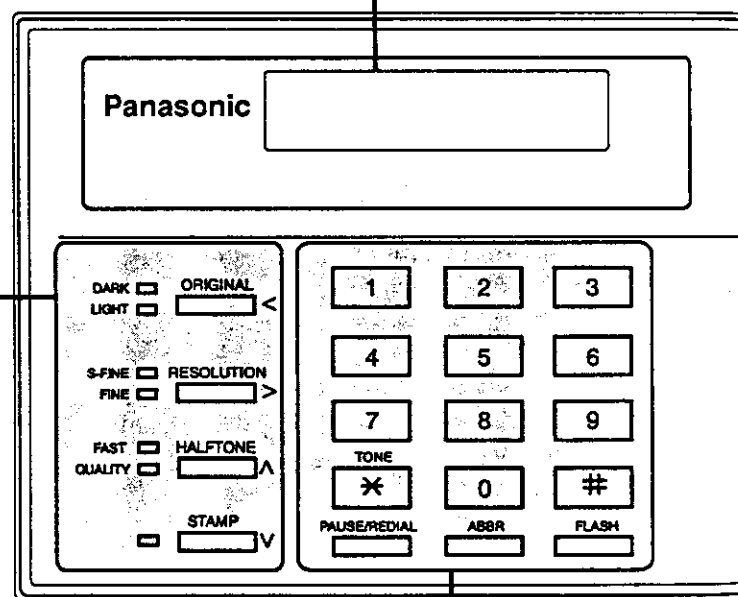
Control Panel

ORIGINAL <	Used to set Normal, Light, or Dark. (see page 39) Also serves as an arrow key (<) to move the cursor over recorded numbers and characters.	HALFTONE ^	Provides OFF, QUALITY or FAST, settings for halftone documents (see page 40). Also used for followings. •Confirm entered station for multi-station communication. •Select functions.
RESOLUTION >	Used to set Standard, Fine, Super-Fine. (see page 39) Also serves as an arrow key (>) to move the cursor over recorded numbers and characters.	STAMP v	Used to turn the verification stamp ON or OFF (see page 40). Also used for followings. •Confirm entered station for multi-station communication. •Select functions.

LCD Display

Indicates date and time, or the current operation.

<table border="1"> <tr><td>1</td><td>2</td><td>3</td></tr> <tr><td>4</td><td>5</td><td>6</td></tr> <tr><td>7</td><td>8</td><td>9</td></tr> <tr><td>*</td><td>0</td><td>#</td></tr> </table>	1	2	3	4	5	6	7	8	9	*	0	#	Used to Manual Number Dialling, recording phone numbers, and selecting functions.
1	2	3											
4	5	6											
7	8	9											
*	0	#											
PAUSE/REDIAL 	Used to temporarily change Dialling Mode to Tone when Pulse mode is set.												
* and #	Used to confirm current communication modes (e.g. Page number, ID, Dialed Telephone number) when unit is on line.												
ABBR 	Used to start Abbreviated Dialling. (see page 45 and 49)												
FLASH 	Used to access some features of your PBX.												



Control Panel

1

RCV MODE Used to select either attended mode or unattended mode. (see page 53)

MEMORY Used to select either memory or direct ADF communication. (see page 41 to 51)

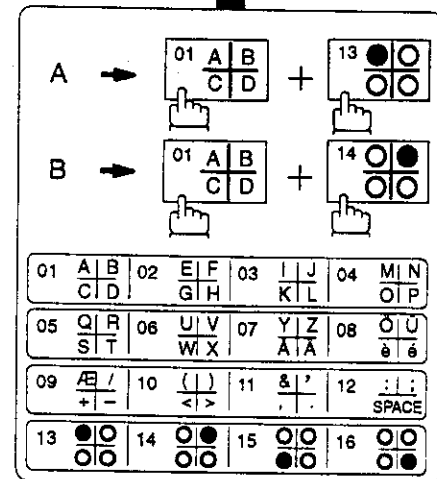
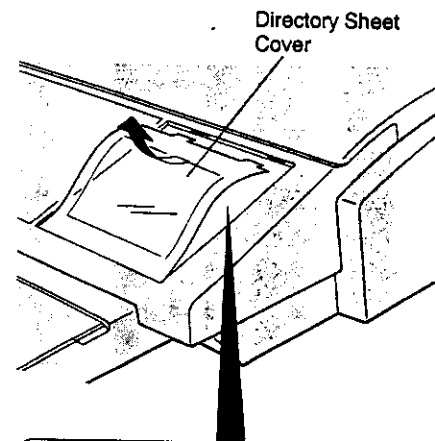
FUNCTION Used to start or select the function and sub-functions. These functions are explained in detail on the next page.

One-Touch Keys (01-16)

Used for One-Touch Dialling. (see page 44 and 48)

Character Keys

The One-Touch Keys also serve as character and symbol input keys which are used to record your LOGO and station name. The character key template is printed on the panel under the directory sheet cover.



STOP Used to cancel operations. When it is pressed, the machine will return to standby.

TEL/DIAL Used to start On-Hook Dialling or to make voice contact request. (see page 42 and 62)

CLEAR Used to erase the previously entered input. Also used to adjust monitor volume. (see page 21)

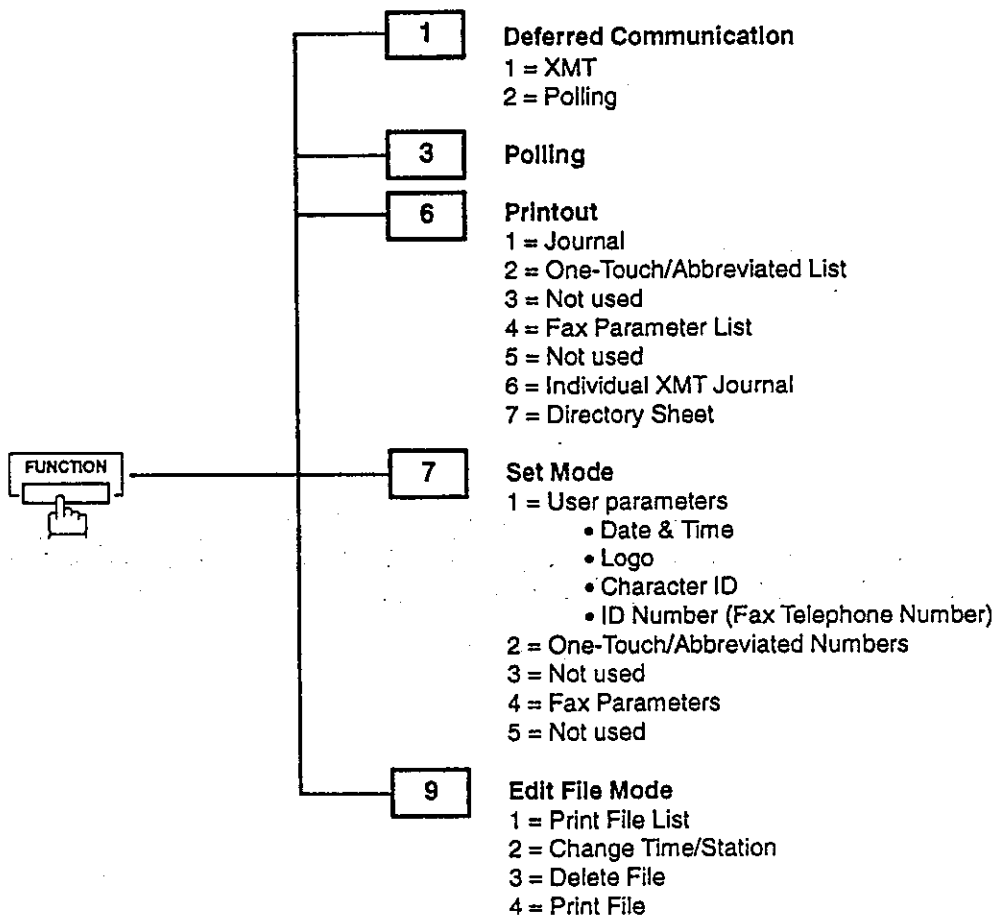
MONITOR VOL SET Used to set operations. Also used to adjust monitor volume. (see page 21)

COPY Used to make photo copies. (see page 61)

START Used to start operations.

Function Key

Any function can be started by first pressing **FUNCTION** and then enter the function number, or by pressing **▲** or **▼** scroll key repeatedly until the desired function appears on the display.



Safety Information

2

WARNING

denotes a potential hazard that could result in serious injury or death.

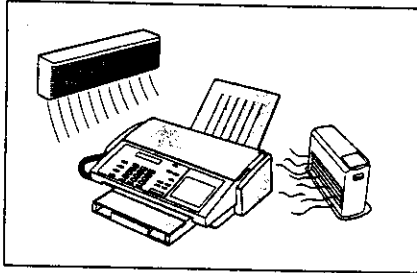
- TO PREVENT FIRE OR SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY TYPE OF MOISTURE.
- TO MINIMIZE THE POSSIBILITY OF SHOCK OR DAMAGE TO THE MACHINE, IT MUST BE PROPERLY GROUNDED.
- WHEN YOU OPERATE THIS EQUIPMENT, THE SOCKET-OUTLET SHOULD BE NEAR THE EQUIPMENT AND BE EASILY ACCESSIBLE.
- PLUG POWER SUPPLY CORD INTO ORDINARY AC OUTLET BEFORE CONNECTING TELEPHONE LINE CORD. DISCONNECT TELEPHONE LINE CORD BEFORE UNPLUGGING POWER SUPPLY CORD FROM AC OUTLET.
- DISCONNECT THE EQUIPMENT IMMEDIATELY SHOULD IT EVER SUFFER PHYSICAL DAMAGE WHICH RESULTS IN THE INTERNAL PARTS BECOMING ACCESSIBLE IN NORMAL USE. IN THIS INSTANCE USERS SHOULD HAVE THE EQUIPMENT REPAIRED OR DISPOSE OF.
- IF THE POWER SUPPLY CORD AND/OR TELEPHONE LINE CORD OF THIS EQUIPMENT ARE DAMAGED, THEY MUST BE REPLACED BY THE SPECIAL CORDS SUPPLIED BY AN AUTHORIZED PANASONIC SERVICE CENTRE.

CAUTION

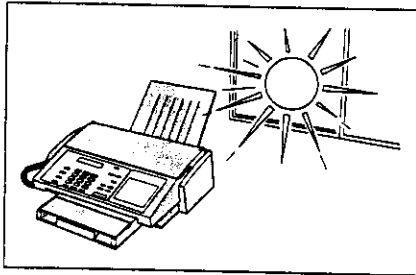
- 1 When you know that a thunderstorm is coming, we recommend that you:
 - (1) Unplug the telephone line cord from the phone jack.
 - (2) Turn off the power and unplug the power supply cord from the AC outlet.
- 2 This equipment may not necessarily provide for the effective hand-over of a call to or from a telephone connected to the same line.
- 3 The operation of this equipment on the same line as telephones or other equipment with audible warning devices or automatic ring detectors will give rise to bell tinkle or noise and may cause false tripping of the ring detector. Should such problems occur, the user is not to contact telecom (telephone company) faults service.

Safety Information

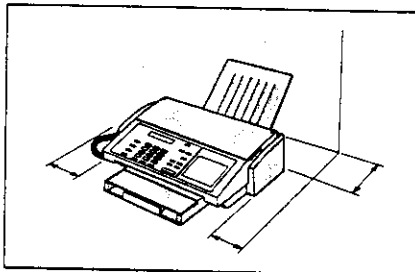
⚠ CAUTION denotes hazards that could result in minor injury or damage to the machine.



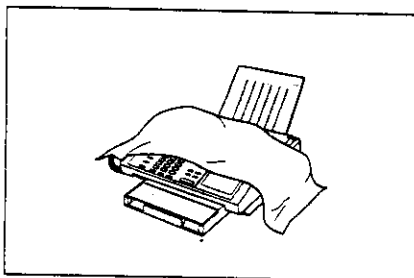
Do not install the machine near heating or air conditioning unit.



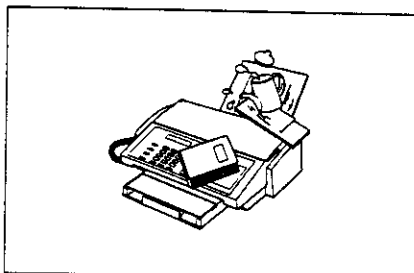
Avoid exposure to direct sunlight.



Install the machine on a flat surface, leave at least 10 cm of space between the machine and other objects.



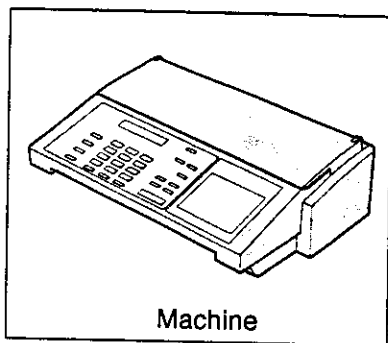
Do not block the ventilation openings.



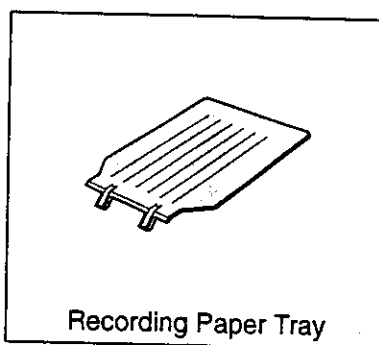
Do not place heavy objects, or spill liquids on the machine.

Main Unit and Accessories

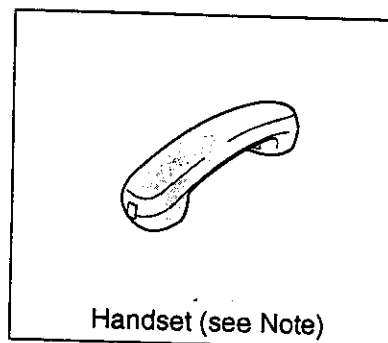
Unpack the carton and check that you have all accessories illustrated.



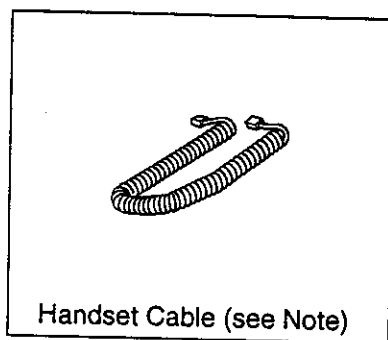
Machine



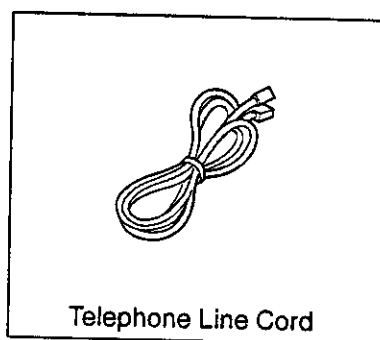
Recording Paper Tray



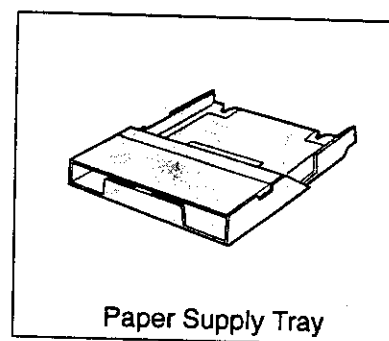
Handset (see Note)



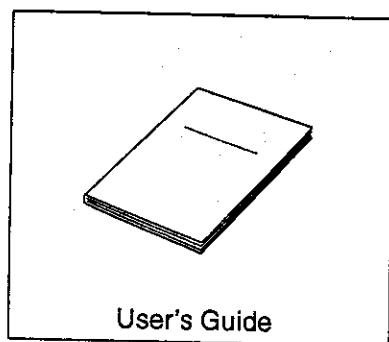
Handset Cable (see Note)



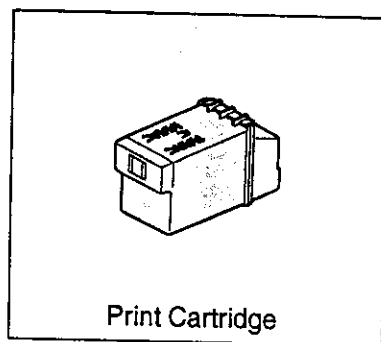
Telephone Line Cord



Paper Supply Tray



User's Guide

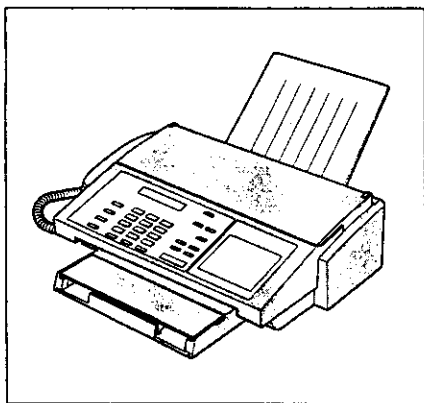


Print Cartridge



Note: For some countries, these accessories are not attached because of the country's regulation or specification.

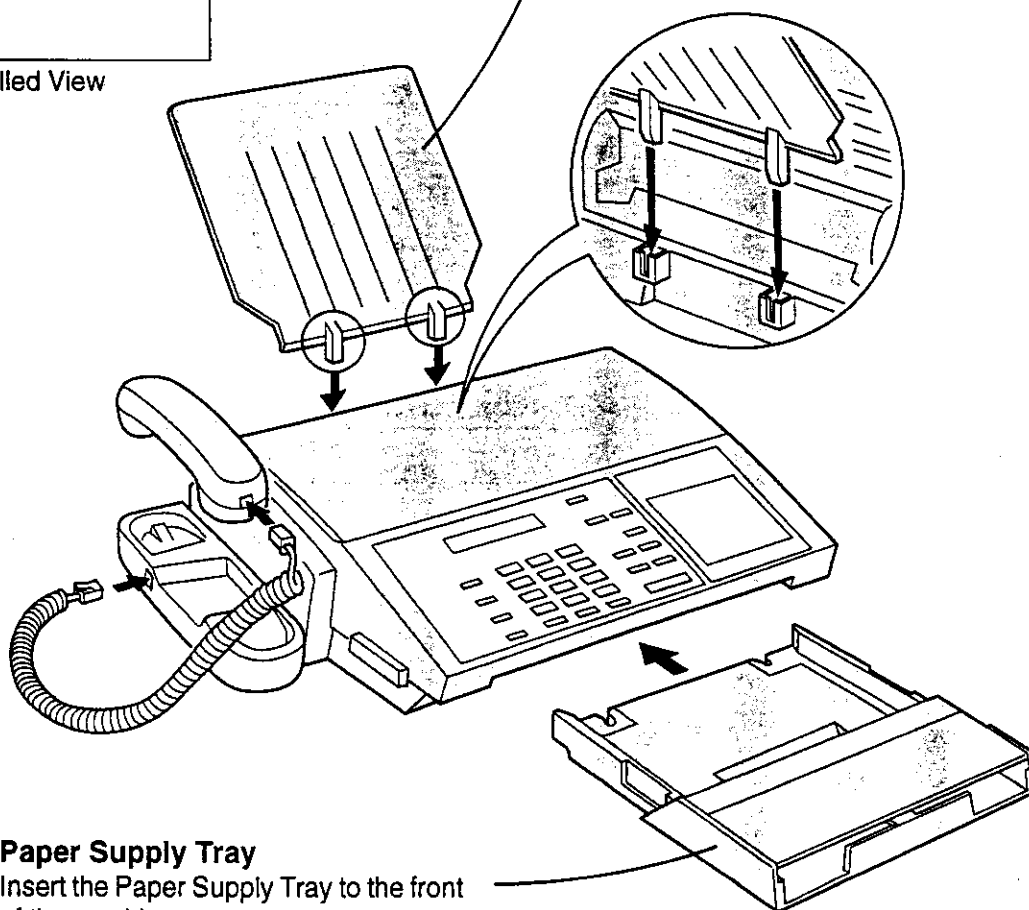
Installing Accessories



Final Installed View

Recording Paper Tray

Hook the projections of the Recording Paper Tray into the square holes on the rear of the machine.

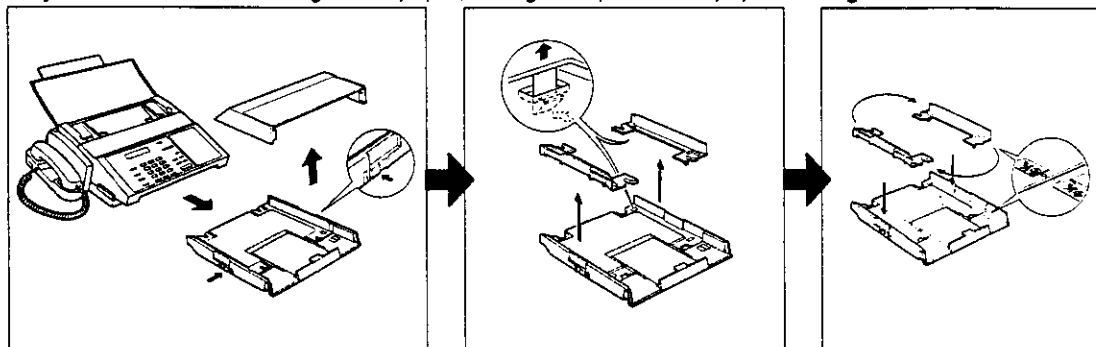


Paper Supply Tray

Insert the Paper Supply Tray to the front of the machine.

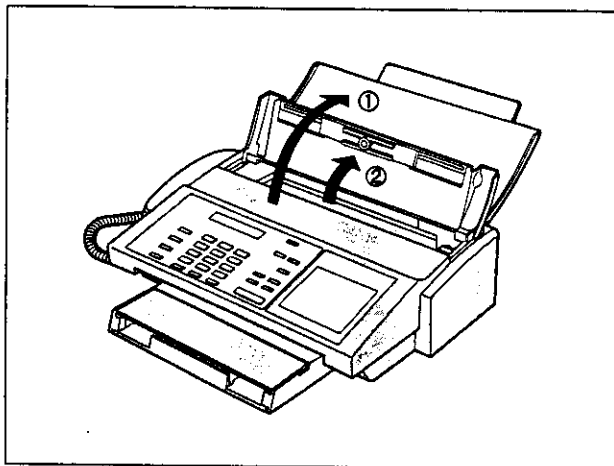


Note: If you wish to use Letter/Legal size paper, change the position of paper width guide as shown below.



Installing Print Cartridge

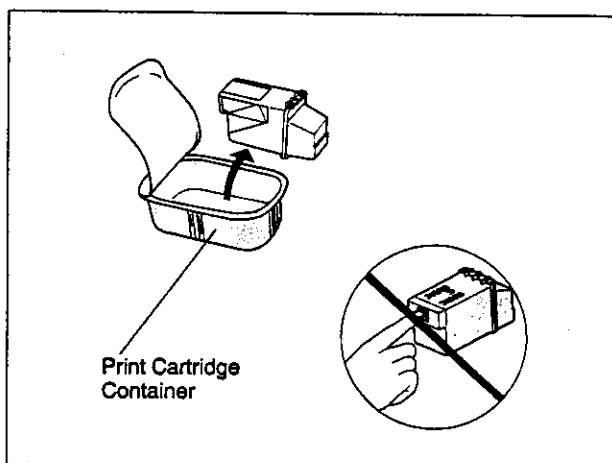
1



① Open the Document Tray.

② Open the Printer Cover.

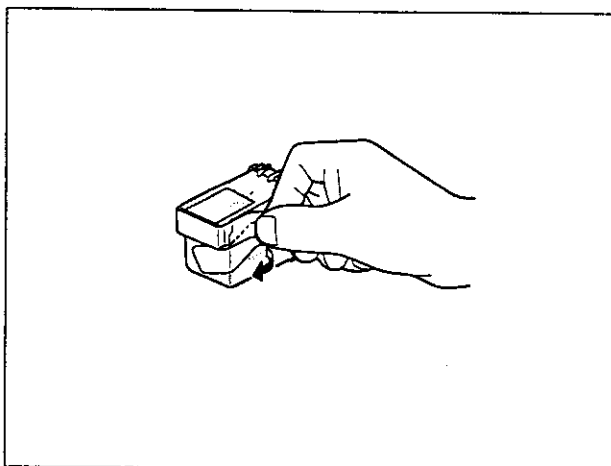
2



Open the Print Cartridge Container. Grasp the Print Cartridge by the green part and remove it from its container.

Take care not to touch the copper "Ribbon" located on the front edge of the Print Cartridge. Also be sure that the copper "Ribbon" does not come in contact with any surface.

3



Gently remove the protective tapes from the front of the Print Cartridge.

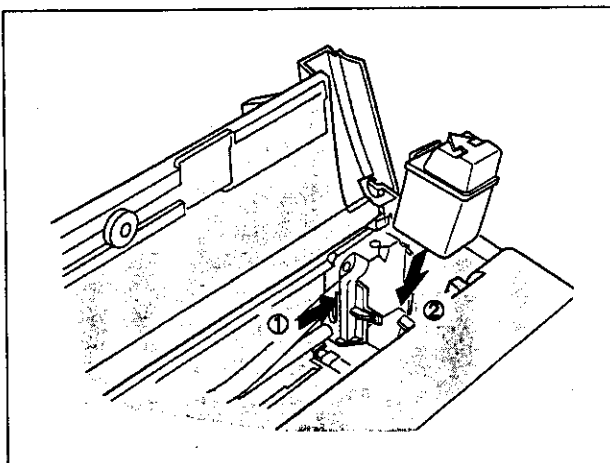
⚠ CAUTION

The Ink in the Print Cartridge may be harmful to children if swallowed. Keep new or used cartridges out of the reach of children and immediately discard used cartridge.

2

Installing Print Cartridge

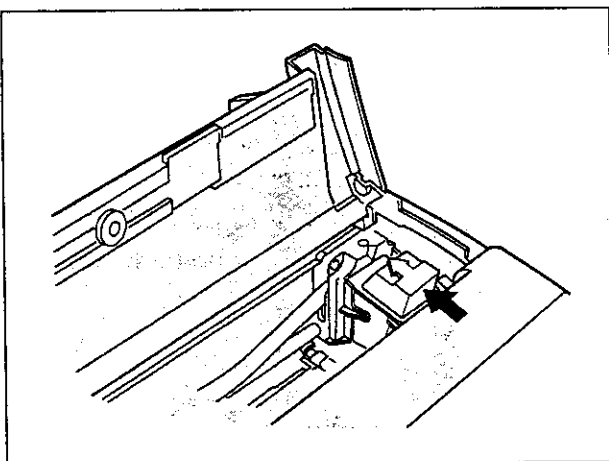
4



① Slide the Print Cartridge Cradle all the way to the right of the machine.

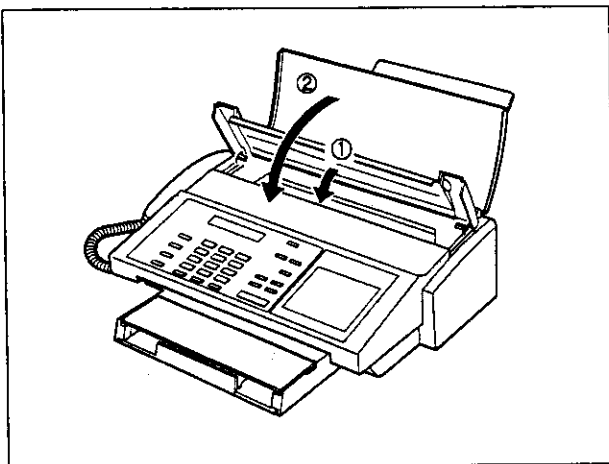
② Insert the Print Cartridge into the cradle with the green arrow on the cartridge top pointing to the green dot on the top of the cradle.

5



Push the cartridge into the cradle, snapping the cartridge into place.

6



① Close the Printer Cover.

② Close the Document Tray.

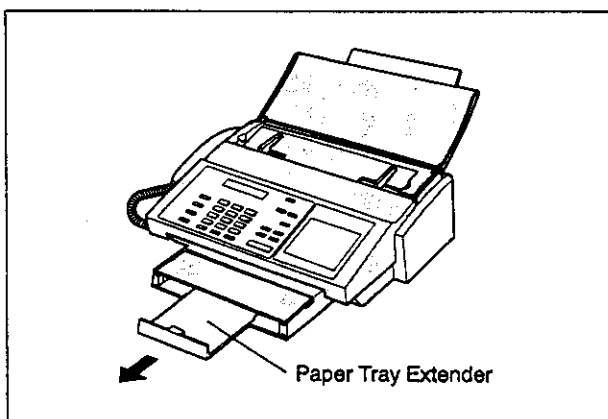
Loading Recording Paper

Paper Specifications

In general, most bond papers will produce excellent results. Most photocopy papers will also work very well. There are many "name" and "generic" brands of paper available. We recommend that you test various papers until you obtain the results you are looking for. For detailed recommended paper specifications, see page 97.

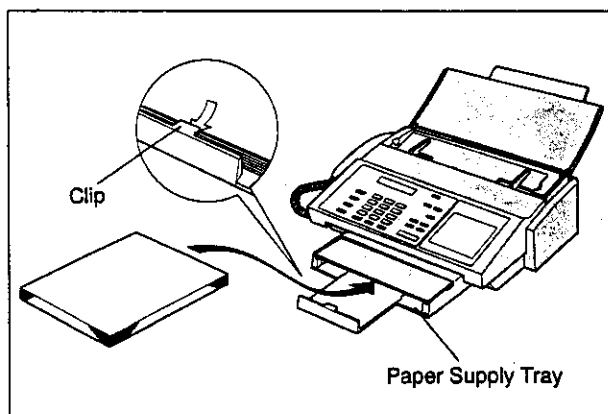
How to Load Recording Paper

1



Pull out the Paper Tray Extender.

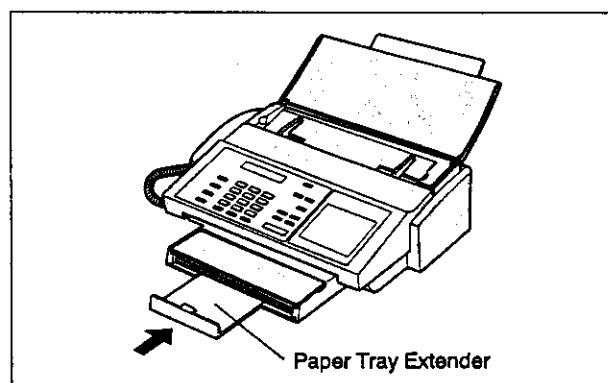
2



Insert a stack of paper about 12 mm thick (approximately 100 sheets of paper) squarely into the Paper Supply Tray.

Caution: Make sure that the paper does not exceed over the clip of the paper tray extender.

3



Slide the Paper Tray Extender in toward the paper to hold the paper against the printer.



Note: 1. The setting of Fax Parameter No. 23 (Recording Paper Size) must be set according to the paper you have loaded. (see page 35)
2. Do not add the recording paper while machine is printing a document.

Connecting the Telephone Line Cord and Power Cord

■ Telephone Line Cord

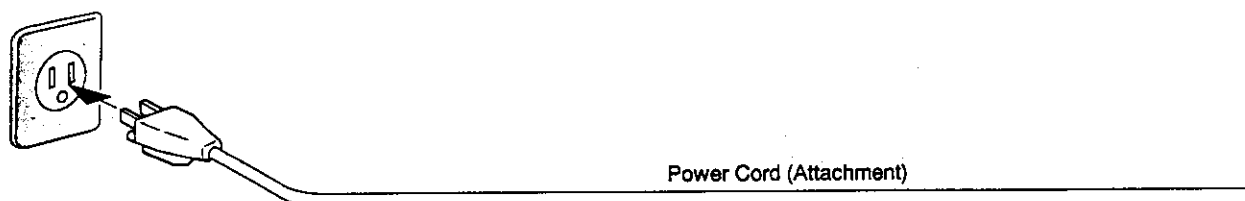
Plug one end of the telephone line cord into the telephone jack supplied by the telephone company and the other end into the LINE jack on the rear of the machine.



■ Power Cord

Plug the Power Cord into an ordinary AC outlet.

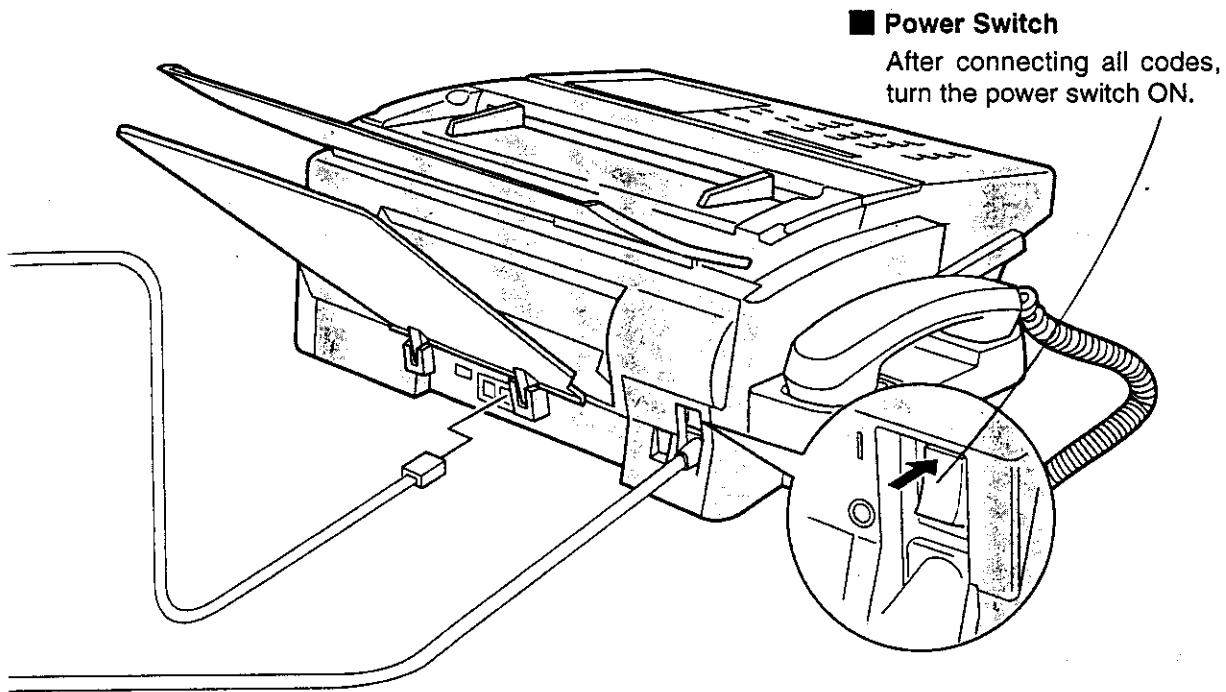
Warning : This apparatus must be properly grounded.



- Note:**
1. When you turn the power switch ON, the ADF Protective Sheet will be ejected automatically.
 2. Your machine uses little power and you should keep it ON at all times. If the power is turned OFF for too long, the contents of the memory will be lost.
 3. Your machine has a rechargeable battery to preserve the memory contents which contain the machine parameter (such as LOGO, ID Number, Auto-dialer Telephone Number, etc.) in case of a power failure. The battery can back up the information for up to 10 days.
 4. The built-in rechargeable battery requires 48 hours to be fully charged in the machine.

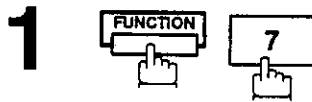
Connecting the Telephone Line Cord and Power Cord

2



Setting the Dialling Method (Tone or Pulse)

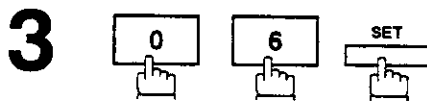
Your machine can operate with either of two dialling methods (Tone or Pulse), depending on the type of telephone line you are connected to. If you need to change the dialling method to Tone or Pulse, follow the procedure below.



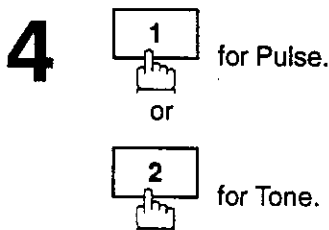
SET MODE (1-5)
ENTER NO. OR ^ V



FAX PARAMETER(01-53)
NO.=

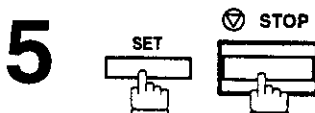


06 DIALLING METHOD
2:TONE



06 DIALLING METHOD
1:PULSE

or
06 DIALLING METHOD
2:TONE



Adjusting Volume

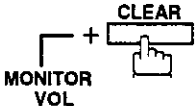
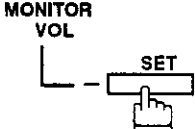
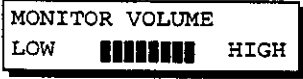
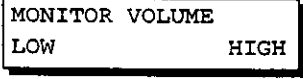
You can adjust the monitor volume and ringer volume on your machine. The built-in speaker enables you to hear the dial tone, dialling signals, and busy tone. The ringer sounds when your machine receives a call.

Setting Monitor Volume

You can adjust the volume by using both **CLEAR** and **SET**.
The following describes the method of using **CLEAR** and **SET**.

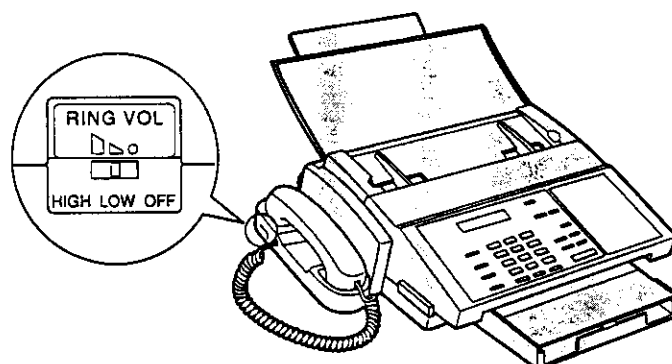
- 1** 

You will hear the dial tone through the speaker.


- 2**  repeatedly to raise the volume.
or
 repeatedly to lower the volume.
 

- 3** 

Setting Ringer Volume

The ringer volume is located on the upper left of the handset cradle.
Move the switch to a desired position, either high, low or off.



! **Note:** You can also adjust the volume of the key touch tone and the volume of the buzzer in Fax Parameter No. 10 (KEY/BUZZER VOLUME). (see page 34)

User Parameters

Your facsimile machine has several basic settings (User Parameters) to help you keep records of the documents you send or receive. For example, the built-in clock keeps the current date and time, and your LOGO and ID Number help to identify you when you send or receive documents.

If a power failure occurs, a built-in battery will back up this information for up to 10 days when it is fully charged.

Setting the Date and Time

At standby the display will show the date and time. Once the standby display is set, it will automatically be updated.

1   SET MODE (1-5)
ENTER NO. OR ^ V

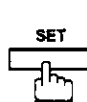
2  1:USER PARAMETERS?
PRESS SET TO SELECT

3  DATE & TIME
1-01-0000 00:00

4 Enter the new date and time.

Ex:	0 8	Date : 08th	DATE & TIME 08-12-1993 15:00
	1 2	Month : December	
	1 9 9 3	Year : 1993	
	1 5 0 0	Time : 3:00 PM	

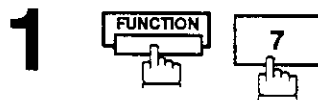
If you make a mistake, use the < ORIGINAL and
> RESOLUTION to move the cursor to the incorrect
number and enter the new number over it.

5  

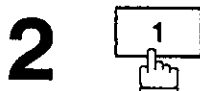
User Parameters

Setting Your LOGO

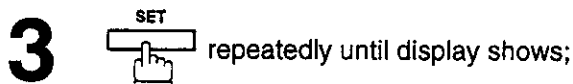
When you send a document, your LOGO appears on the top of the copy printed out at the other station.
The LOGO helps to identify you to someone who receives your document.



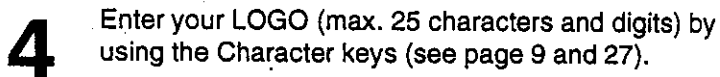
SET MODE (1-5)
ENTER NO. OR ^ V



1:USER PARAMETERS?
PRESS SET TO SELECT



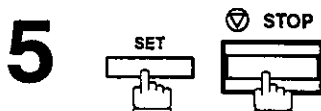
LOGO
█



Ex: P A N A S O N I C

LOGO
PANASONIC █

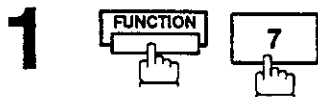
If you make a mistake, use < ORIGINAL and > RESOLUTION to move the cursor to the incorrect character and enter the new character over it.
If more than 19 characters are entered, the left side characters will scroll off the display.



User Parameters

Setting Your Character ID

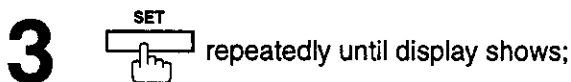
If the remote machine has a Character ID capabilities, when you are sending or receiving, your Character ID will appear on the remote machine's display and the remote machine's Character ID will appear on your display.



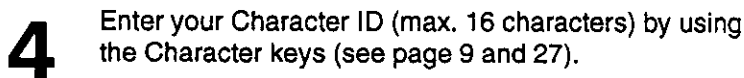
SET MODE (1-5)
ENTER NO. OR ^ V



1:USER PARAMETERS?
PRESS SET TO SELECT



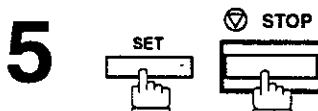
CHARACTER ID



Ex: H E A D > O F F I C E

If you make a mistake, use < ORIGINAL and > RESOLUTION to move the cursor to the incorrect character and enter the new character over it.

CHARACTER ID
HEAD OFFICE



! **Note:** The special characters of Å, Ä, Ö, Ü, Æ, è and é cannot be used for Character ID.

User Parameters

Setting Your ID Number (Fax Telephone Number)

If the remote machine does not have a Character ID but it has an ID Number, when sending or receiving, your ID Number will appear on the remote machine's display and their ID Number will appear on your display.

We suggest you use your facsimile telephone number as your ID number for up to 20 digits long.

1   SET MODE (1-5)
ENTER NO. OR A V

2  1:USER PARAMETERS?
PRESS SET TO SELECT

3  repeatedly until display shows; ID NO.

4 Enter your ID (max. 20 digits) by using the key pad and SPACE.

Ex: 2 0 1 SPACE 5 5 5
SPACE 1 2 1 2

ID NO.
201 555 1212

If you make a mistake, press CLEAR to erase the number then reenter the correct number.

5  

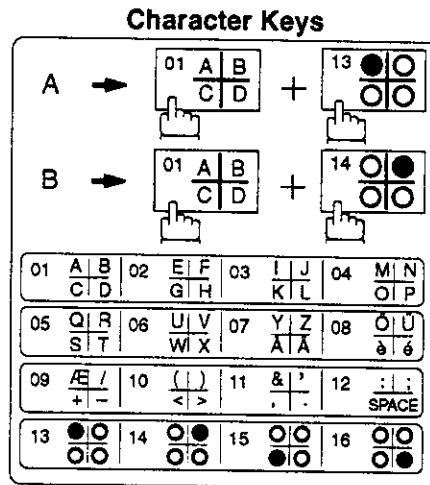
- !** **Note:** 1. You may use * to enter a "+" character at the beginning of the ID number to indicate the following digit(s) for your country code.
Ex: +1 201 555 1212 +1 for U.S.A. country code.
+81 3 111 2345 +81 for Japan country code.
2. For some countries, this feature is not available depending on the country's regulation.
The display may not show this feature.



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Entering Characters

The One-Touch Keys on the Control Panel also serve as character and symbol input keys when you record your LOGO, Character ID and station names. A template is printed on the panel under the directory sheet cover.



Following is the example to enter a LOGO using the character keys.

To enter "PANASONIC" for LOGO.

1 to select M, N, O or P

to enter P

2 to select A, B, C or D

to enter A

3 Enter all characters as steps shown above.

4

LOGO
█

LOGO
P █

LOGO
PA █

LOGO
PAN █

LOGO
PANASONIC █

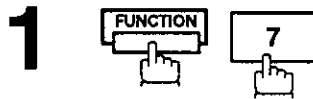
3

One-Touch/Abbreviated Dialling Numbers

Entering One-Touch/Abbreviated Dialling Numbers

One-Touch and Abbreviated Dialling are two fast ways of dialling full telephone numbers. To use these dialling methods, you must first store the telephone number using the following procedure.

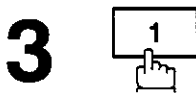
To enter a One-Touch key, follow these steps below



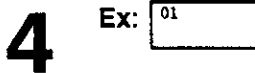
SET MODE (1-5)
ENTER NO. OR ^ V



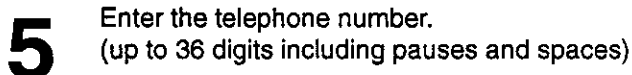
1:ONE-TOUCH
2:ABBR. NO.



ONE-TOUCH< >
PRESS ONE-TOUCH KEY

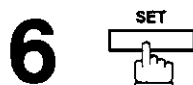


ONE-TOUCH<01> TEL.
|

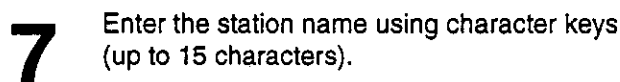


Ex:

ONE-TOUCH<01> TEL.
9-555 1234|

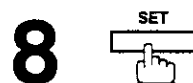


ONE-TOUCH<01> NAME
|



Ex:

ONE-TOUCH<01> NAME
SALES DEPT.|



To record another number, repeat step 4 to 8.
To return to standby, press .

ONE-TOUCH< >
PRESS ONE-TOUCH KEY

One-Touch/Abbreviated Dialling Numbers

To set an Abbreviated Dialling Number, follow these steps below

- 1  

SET MODE (1-5)
ENTER NO. OR ^ V
- 2  

1: ONE-TOUCH
2: ABBR. NO.
- 3 

ABBR[]
ENTER ABBR. NO.
- 4 Ex:   (01 to 34)

ABBR[22] TEL.
|
- 5 Enter the telephone number.
(up to 36 digits including pauses and spaces)

Ex:          

ABBR[22] TEL.
9-555 2345|
- 6 

ABBR[22] NAME
|
- 7 Enter the station name using character keys
(up to 15 characters).

Ex:            

ABBR[22] NAME
ACCOUNTING DEPT|
- 8 

ABBR[]
ENTER ABBR. NO.

To record another number, repeat step 4 to 8.
To return to standby, press .

- !** **Note:** 1. If you require a special access number to get an outside line, enter it first and then press . A hyphen "-" is displayed for pause.
2. Use  to enter a space between the numbers to make it easier to read.
3. The built-in battery can back up One-Touch/ABBR. Numbers up to 10 days when a power failure occurs.
4. If you are using Pulse dialling and you wish to change to Tone dialling in the middle of dialling, press  (represented by a"/"). The dialling method will be changed from Pulse to Tone after dialling the digit "/".
5. You can search an unused One-Touch key or ABBR. number by pressing  or  in step 3 or 4.

One-Touch/Abbreviated Dialling Numbers

Changing or Erasing One-Touch/Abbreviated Dialling Numbers

If you have to change or erase any of the One-Touch/Abbreviated dialling numbers, follow the steps below.

To change the settings of a One-Touch/ABBR. dialling number



1: ONE-TOUCH
2: ABBR. NO.

2 Select 1 for One-Touch Dialling number.
Select 2 for ABBR. Dialling Number.

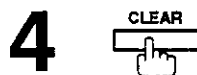
Ex:

ONE-TOUCH< >
PRESS ONE-TOUCH KEY

3 Enter the station you wish to change.

Ex:

ONE-TOUCH<07> TEL.
9-555 1234

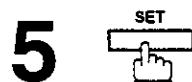


then enter a new telephone number.(see Note 1 and 2)

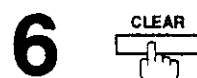
Ex:

ONE-TOUCH<07> TEL.

999 3456



ONE-TOUCH<07> NAME
PANASONIC



then enter a new station name.(see Note 1 and 3)

Ex:

ONE-TOUCH<07> NAME

PANAFAX



To return to standby, press .

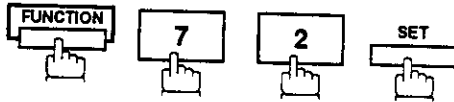
ONE-TOUCH< >
PRESS ONE-TOUCH KEY

- !** **Note:** 1. Use or to move the cursor, then enter the correct number over the incorrect number.
2. Use to insert a space between the numbers you set. If the telephone number has full digit (36 digits), cannot be used to insert a space.
3. cannot be used to insert a space in setting of the station name.
4. If the One-Touch/Abbreviated dialling number has been used for a communication reservation, the settings cannot be changed or erased until the communication has ends.
To change or erase the settings, cancel the communication first by File Edit Mode (see page 67).

One-Touch/Abbreviated Dialling Numbers

To erase the setting of One-Touch/ABBR. Dialling number

1



1: ONE-TOUCH
2: ABBR. NO.

3

2

Select 1 for One-Touch Dialling number.
Select 2 for ABBR. Dialling Number.

Ex:

ONE-TOUCH< >
PRESS ONE-TOUCH KEY

3

Enter the station you wish to erase.

Ex:

ONE-TOUCH<01> TEL.
9-555 4567

4



ONE-TOUCH<01> TEL.
█

5



To return to standby, press .

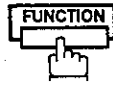
ONE-TOUCH< >
PRESS ONE-TOUCH KEY

One-Touch/Abbreviated Dialling Numbers

Printing Out a Directory Sheet

After programming a one-touch dialling number, you can print out the directory sheet which includes the first 10 characters of each station name. Cut along the dotted line and place it over the One-Touch key under the Directory Sheet Cover. To print out a directory sheet, follow these steps below.

1



PRINT OUT (1-7)
ENTER NO. OR A V

2



* PRINTING *
DIRECTORY SHEET

*****-DIRECTORY SHEET-***** DATE 08-DEC-1993 ***** TIME 12:00*****

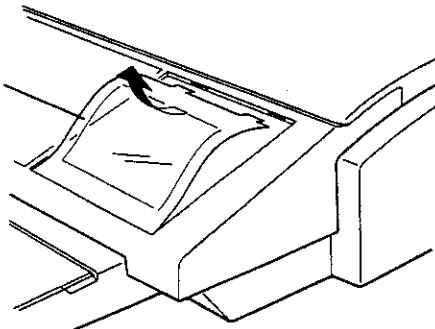
01	02	03	04
SALES	DEPT	ENG.	DEPT
05	06	07	08
09	10	11	12
13	14	15	16

Dotted line

-PANASONIC-

*****-HEAD OFFICE -***** 201 555 1212-*****

Directory Sheet Cover



Customizing Your Machine

Your facsimile machine has a variety of adjustable Fax Parameters. These parameters, listed in the Parameter Table, are preset for you and do not need to be changed. If you do want to make a change, read the table carefully. Some parameters, such as the Resolution, Original, and Verification Stamp parameters, can be temporarily changed by simple key operations just before a transmission is made. When the transmission ends, however, these parameters return to their preset values (Home position). Other parameters can only be changed by the procedure described below.

Setting Fax Parameters

1



SET MODE (1-5)
ENTER NO. OR ^ V

2



FAX PARAMETER (01-53)
NO. =

3

Enter Fax Parameter number from the Parameter Table (see pages 34 to 36).

Ex: 0 1 for ORIGINAL

FAX PARAMETER (01-53)
NO. = 01

4



01 ORIGINAL
1: NORMAL

5

Enter the new setting value.

Ex: 2 for LIGHT

01 ORIGINAL
2: LIGHT

6



02 RESOLUTION
1: STANDARD

To set another parameter, press **CLEAR** to return to step 3, or, to return to standby, press **STOP**.



Note: 1. To scroll the Fax Parameters in Step 2 or 4, press **^** or **v**.

2. To print out a Fax Parameter List, see page 79.

3. The built-in battery when fully charged can back up the Fax Parameter settings for up to 10 days when a power failure occurs.

Customizing Your Machine

Fax Parameter Table

No.	Parameter	Setting Number	Setting	Comments
01	ORIGINAL	1	Normal	Setting home position of the ORIGINAL key.
		2	Light	
		3	Dark	
02	RESOLUTION	1	Standard	Setting home position of the RESOLUTION key.
		2	Fine	
		3	S-Fine	
04	STAMP	1	Off	Setting home position of the STAMP key. To select the stamp function when document is stored in memory (see Fax Parameter No. 28).
		2	On	
05	MEMORY	1	Off	Setting home position of the MEMORY key.
		2	On	
06	DIALING METHOD	1	Pulse	Selecting dialling method.
		2	Tone	
07	HEADER PRINT	1	Inside	Selecting printing position of the header. Inside : Inside TX copy area. Outside : Outside TX copy area. No print : Header is not printed.
		2	Outside	
		3	No print	
08	HEADER FORMAT	1	Logo, ID No.	Selecting header format.
		2	From To	
09	RCV'D TIME PRINT	1	Invalid	Selecting whether or not the machine prints received time, page no, and remote ID on bottom of each received page.
		2	Valid	
10	KEY/BUZZER VOLUME	1	Off	Selecting the volume of the Key/Buzzer tone.
		2	Soft	
		3	Loud	
12	COMM. JOURNAL	1	Off	Selecting home position of printout mode for COMM. Journal Off/Always/Inc. only Off : No printout Always : Always prints out Inc. only : Printout when communication has failed.
		2	Always	
		3	Inc. only	
13	AUTO JOURNAL	1	Invalid	Selecting whether or not the machine prints the journal automatically after every 32 transaction.
		2	Valid	
15	ATTENDED MODE	1	Tel	Selecting attended mode either Telephone Mode or Fax/Tel Auto Switching Mode.
		2	Fax/Tel SW	
16	UNATTENDED MODE	1	Fax	Selecting attended mode either Fax Mode or TAM Interface Mode.
		2	TAM I/F	

Continued on the next page.

Customizing Your Machine

No.	Parameter	Setting Number	Setting	Comments
18	OP CALL TIMER	1	20 sec.	Selecting the length of time that your machine signal (rings) for an incoming voice call in Fax/Tel Auto Switching mode (see page 55).
		2	30 sec.	
		3	40 sec.	
		4	50 sec.	
19	OGM Length (TAM I/F)	1	1 sec.	Setting the OGM length of your TAM from 1 to 60 second. Unit will not start to detect a SILENT until the time lapse after detecting a call in TAM Interface mode.
		---	---	
		60	60 sec.	
20	SILENT DET. (TAM I/F)	1	Invalid	Selecting Silent Detection Mode.
		2	Valid	
22	SUBSTITUTE RCV	1	Invalid	Selecting whether or not the machine receives to memory when recording paper runs out, ink runs out or recording paper jammed.
		2	Valid	
23	RECORDING PAPER SIZE	1	A4	Setting the recording paper size installed in your machine.
		2	Letter	
		3	Legal	
24	PRINT REDUCTION	1	Fixed	Selecting print reduction mode. Fixed: Reduce document according to setting of Parameter No. 25.
		2	Auto	Auto: Reduce document according to the length of received documents.
25	REDUCTION RATIO	70	70%	Selecting fixed print reduction ratio from 70% to 100%. This parameter functions when fixed print reduction is selected on fax parameter no. 24 or when available memory getting low.
		---	---	
		100	100%	
26	POLLING PASSWORD		(----	Setting a 4-digit password for secured polling.
28	STAMP AT MEM. TX	1	Invalid	Selecting whether or not the machine stamps the original documents when storing the documents into memory.
		2	Valid	
32	COPY REDUCTION	1	Invalid	Selecting whether or not the machine performs copy reduction in accordance with the setting of Parameter No. 24 and 25.
		2	Valid	
46	SELECT RCV	1	Invalid	Selecting whether or not the machine performs selective reception. (see page 71)
		2	Valid	
47	REMOTE RCV	1	Invalid	Selecting whether or not the machine accepts remote reception command (see page 54).
		2	Valid	
48	TELEPHONE LINE	1	PSTN	Selecting the type of line connected.
		2	PBX	
49	PSTN ACCESS CODE		0---	Setting PSTN Access Code. (max. 4 digits)
50	FLASH KEY	1	Earth	Selecting to use FLASH on control panel either as Earth key or Flash key.
		2	Flash	

Continued on the next page.

Customizing Your Machine

No.	Parameter	Setting Number	Setting	Comments
52	DIAGNOSTIC PASSWORD		(---)	Setting the password for Remote Diagnostic Mode. Please ask your Panasonic Authorized Dealer for details.
53	OPTION MEMORY	-	-	Display the amount of base and option memory installed. (Base Memory + Option Memory)



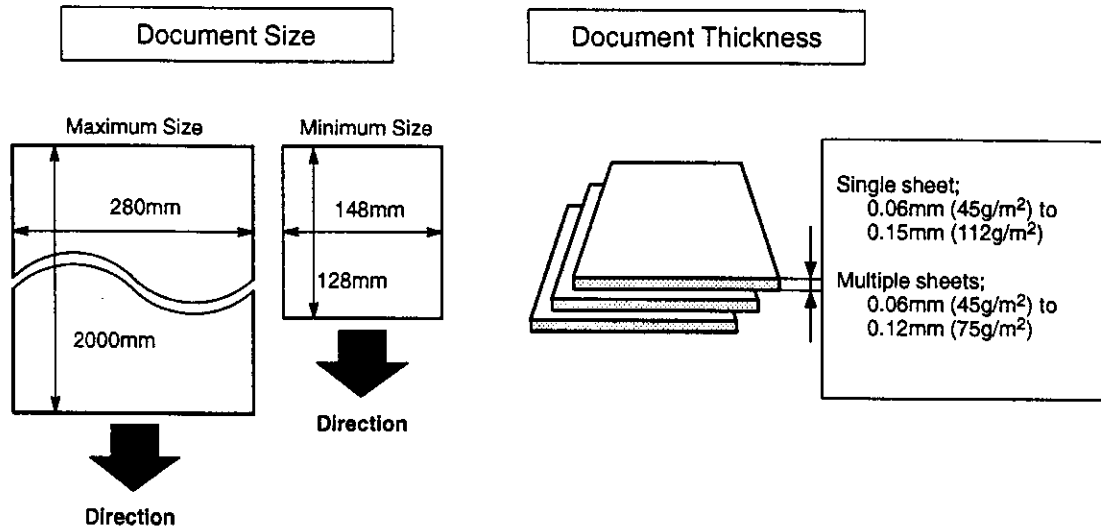
Note: 1. The contents of Fax Parameter may differ depending on the each country's regulation or specification.

2. The standard settings are printed on the Fax Parameter List. To print out Fax Parameter List, see page 79.

Loading Documents

Documents You Can Send

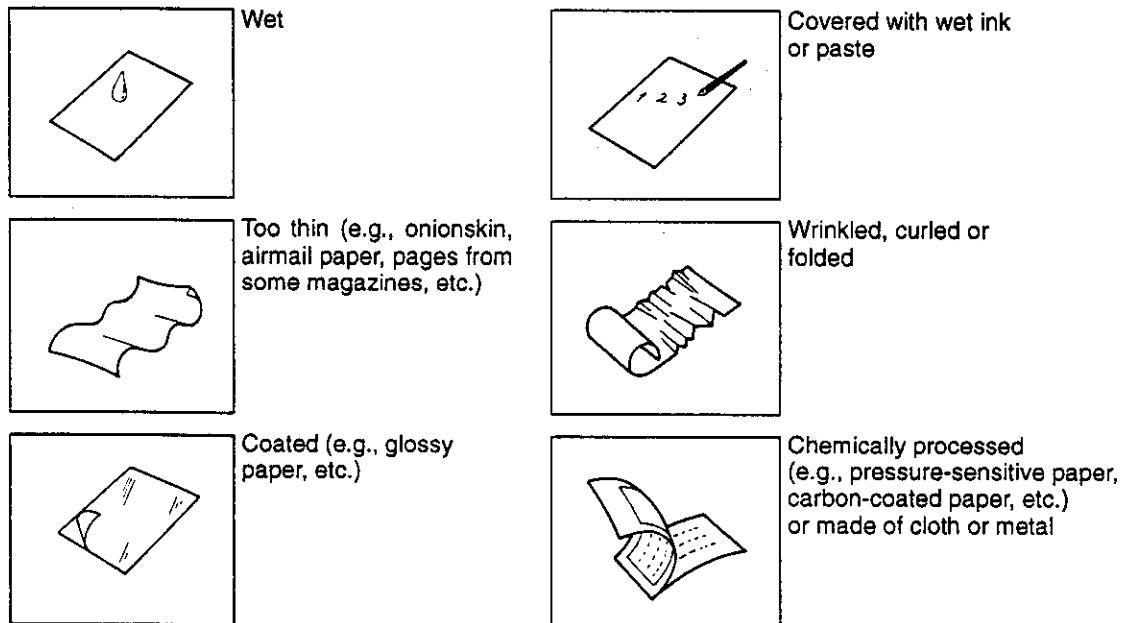
In general, your machine will send any document printed on Letter or Legal size paper.



4

Documents You Cannot Send

You must never try to send documents that are

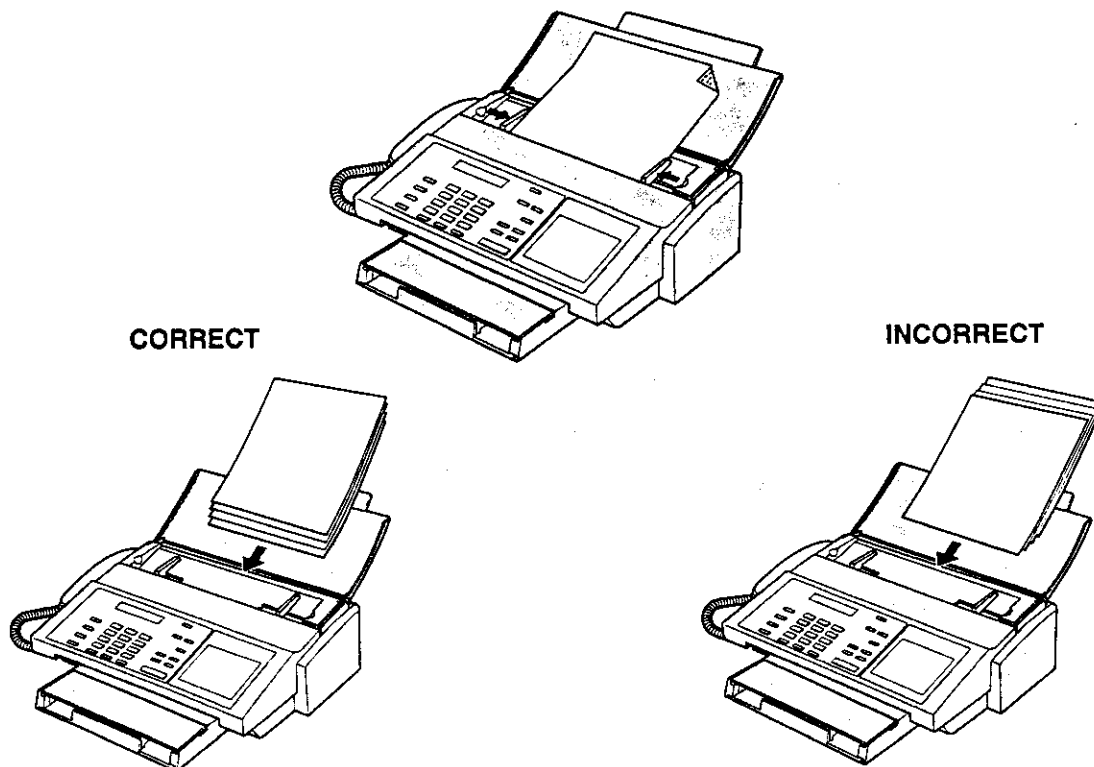


To transmit these kinds of documents, make a photocopy first and then transmit the copy instead.

Loading Documents

How to Load Documents

1. Be sure the document(s) is free of staples, paper clips and is not torn, greasy or covered by foreign objects.
2. Place the document(s) **FACE DOWN** on the Automatic Document Feeder (ADF) until the leading edge placed into the machine stops.
If you are sending multiple pages, make sure that **the bottom sheet enters first**. You can also stack up **to 30 PAGES** (see Note 1) on the ADF at one time. If you have more than 30 pages, wait until transmission or storing in memory starts as pages feed through, place any remaining pages on top of the last page in the feeder.
3. Adjust the Document Guides to center the document on the ADF.



When you set a document on the ADF, the display message will change from date and time (standby) to **DOCUMENT SET**. You can now change basic transmission settings, or begin the dialling procedure.

DOCUMENT SET
ENTER STATION 00%

! **Note:** 1. The document limitation to send multiple pages is as follows.

	Document Size	Document Thickness
Up to 20 pages	Up to 280 mm × 364mm	0.06 mm to 0.12 mm
Up to 30 pages*	A4 size or Letter size	0.06 mm to 0.10 mm

* Paper that have rough surface may not be able to utilize all 30 pages even if the size and thickness specification are met.

2. Transmitting documents longer than 356 mm requires user's assistance.

Basic Transmission Settings

You can temporarily change the transmission settings either before or after you place document on the ADF. These settings are as follows;

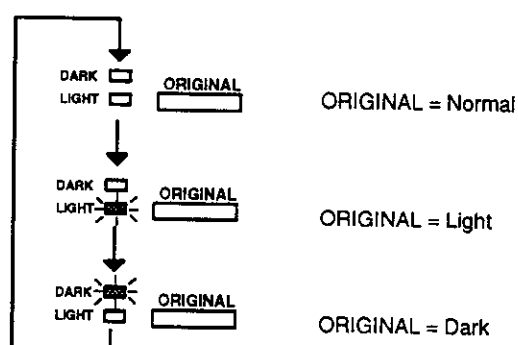
- Original (Contrast)
- Resolution
- Halftone
- Stamp

After your document has been sent, your machine will automatically return to the preset settings.

Original (Contrast)

Your machine is preset to **Normal** contrast. If you have to send a document with light print contrast, you may get better results by changing the setting to **Light**. If you have to send a document with dark print contrast, change the setting to **Dark**.

Press **ORIGINAL** to:

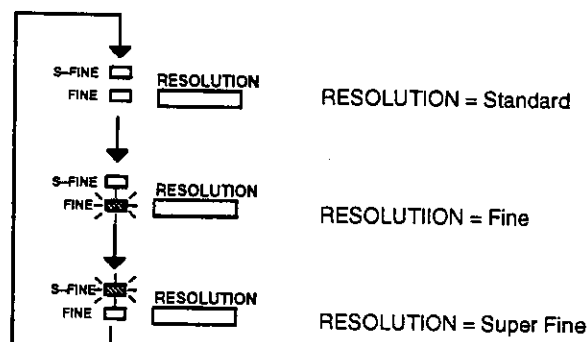


! **Note:** To change the preset Contrast position, change the setting of Fax Parameter No. 01, see page 34.

Resolution

Your machine is preset to **Standard** resolution, which is suitable for most documents. Use **Fine** or **Super Fine** for detailed documents.

Press **RESOLUTION** to:

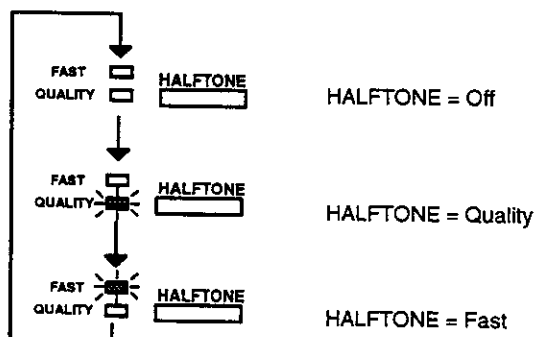


! **Note:** To change the preset Resolution position, change the setting of Fax Parameter No. 02, see page 34.

Basic Transmission Settings

Halftone

The Halftone setting is useful when sending photographs or illustrations with gray tones. Your machine is preset to HALFTONE = Off. You can select either Fast mode or Quality mode.

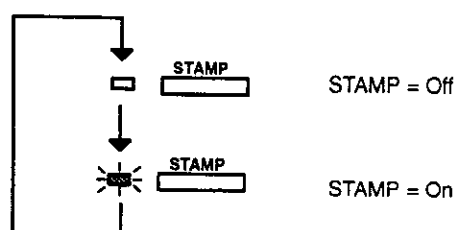


! **Note:** When you select HALFTONE to FAST or QUALITY, your machine will automatically select *Fine Resolution*.

Verification Stamp

The Verification Stamp helps you to confirm successful transmissions by stamping the bottom of each successfully transmitted page with a small ⊗ mark.

Press **STAMP** to:



! **Note:** 1. When you store document in memory, the Verification Stamp will not function.
If you wish to enable the use of the Verification Stamp when storing document in memory, change the setting of Fax Parameter No. 28, see page 35.
2. To change the preset Verification Stamp position, change the setting of Fax Parameter No. 04, see page 34.

Sending Documents

You can choose either Memory Transmission or Direct Transmission.

Use Direct Transmission if:

- The memory is full.
- You want to send the document after talking with the other party.

Use Memory Transmission if:

- You want to send the same document to multiple stations.
- You have to retrieve the document immediately.

Direct Transmission (ADF Transmission)

If the machine's memory is full or you wish to send the document after talking with the other party, use Direct Transmission.

Off-Hook Dialling

For Off-Hook Dialling, follow these steps

1



Set document(s) face down.

DOCUMENT SET
ENTER STATION 00%

2

Lift the handset of your external telephone and dial the telephone number from the keypad.

Ex:

5	5	5	1	2	3	4
---	---	---	---	---	---	---

3

When you hear the voice of the other party, tell the other party to prepare to receive a document.

Then, when you hear a beep, press

START

 and hang up the handset.

ON LINE * XMT *
5551234



Note: To stop the transmission, press

STOP

.

The display shows;

COMMUNICATION STOP?
1: YES 2: NO

Press

1

 to stop the transmission.

4

Sending Documents

On-Hook Dialling

For On-Hook Dialling, follow these steps

1



Set document(s) face down.

DOCUMENT SET
ENTER STATION 00%

2



You will hear dial tone through the monitor speaker.

* DIALLING *

3

Dial the telephone number from the keypad.

Ex:

Machine will start sending automatically.

* DIALLING *
5551234

ON LINE * XMT *
5551234



Note: 1. If you need a special access number to get an outside line, dial it first then press **PAUSE** to enter a pause (represented by a "-") before dialling the full number.

Ex: 9 **PAUSE** 5551234

2. If you are using Pulse dialling and you wish to change to Tone dialling in the middle of dialling, press

TONE (represented by a "/").

The dialling mode will be changed from Pulse to Tone after dialling the digit "/".

3. To stop the transmission, press **STOP**.

The display shows;

COMMUNICATION STOP?
1: YES 2: NO

Press **1** to stop the transmission.

4. When you hear the voice of the other party through the monitor speaker in step 3, lift the handset of your external telephone and press **STOP** and tell the other party to prepare to receive a document. Then, when you hear a beep, press **START**.

Sending Documents

Manual Number Dialling (ADF Transmission)

To dial the telephone number manually, follow the steps below.

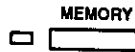
1



Set document(s) face down.

DOCUMENT SET
ENTER STATION 00%

2



Make sure that the lamp is off. If not, press **MEMORY** to set "off".

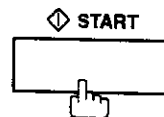
3

Enter a telephone number from the keypad.

Ex: **5 5 5 1 2 3 4**

PRESS START TO DIAL
5551234

4



Your machine starts to dial the telephone number.

* DIALLING *
5551234



Note: 1. If you need a special access number to get an outside line, dial it first then press **PAUSE** to enter a pause (represented by a "-") before dialling the full number.

Ex: 9 PAUSE 5551234

2. If you are using Pulse dialling and you wish to change to Tone dialling in the middle of dialling, press **TONE** (represented by a "/").

The dialling mode will be changed from Pulse to Tone after dialling the digit "/".

3. To stop the transmission, press **STOP**.

The display shows;

COMMUNICATION STOP?
1: YES 2: NO

Press **1** to stop the transmission.

4. If you hear the voice of the other party through the monitor speaker after last step, lift the handset of your external telephone and press **STOP** and **1** to stop the communication. Then press **STOP** to stop the alarm. When you hear the beep after telling the other party to prepare to receive the document, press **START** to start fax communication.

Sending Documents

One-Touch Dialling (ADF Transmission)

One-Touch Dialling allows you to dial a full number by pressing a single key. To set One-Touch keys, see page 28.

1



Set document(s) face down.

DOCUMENT SET
ENTER STATION 00%

2



Make sure that the lamp is off. If not, press **MEMORY** to set "off".

3

Press a One-Touch key.

Ex: **01**

The display will show the One-Touch number and station name. The full number (e.g. 9-555 1234) will then be dialed.

ONE-TOUCH
<01>(Station name)

* DIALLING *
9-555 1234



Note: 1. To stop the transmission, press **STOP**.

The display shows;

COMMUNICATION STOP?
1: YES 2: NO

Press **1** to stop the transmission.

2. If you hear the voice of the other party through the monitor speaker after last step, lift the handset of your external telephone and press **STOP** and **1** to stop the communication. Then press **STOP** to stop the alarm. When you hear the beep after telling the other party to prepare to receive the document, press **START** to start fax communication.

Sending Documents

Abbreviated Dialling (ADF Transmission)

Abbreviated dialling is a speedy way to dial a frequently dialed telephone number by preprogram the telephone number in the built-in auto-dialer with a 2-digit abbreviated code. To program an abbreviated dialling number, see page 28.

1



Set document(s) face down.

DOCUMENT SET
ENTER STATION 00%

4

2



Make sure that the lamp is off. If not, press **MEMORY** to set "off".

3

Press **ABBR** and a 2-digit code.

Ex: **ABBR** **1** **0**

The display will show the ABBR number and station name. The full number (e.g. 9-555 1234) will then be dialed.

ABBR
[10] (Station name)

* DIALLING *
9-555 1234



Note: 1. To stop the transmission, press **STOP**.

The display shows;

COMMUNICATION STOP?
1: YES 2: NO

Press **1** to stop the transmission.

2. If you hear the voice of the other party through the monitor speaker after last step, lift the handset of your external telephone and press **STOP** and **1** to stop the communication. Then press **STOP** to stop the alarm. When you hear the beep after telling the other party to prepare to receive the document, press **START** to start fax communication.

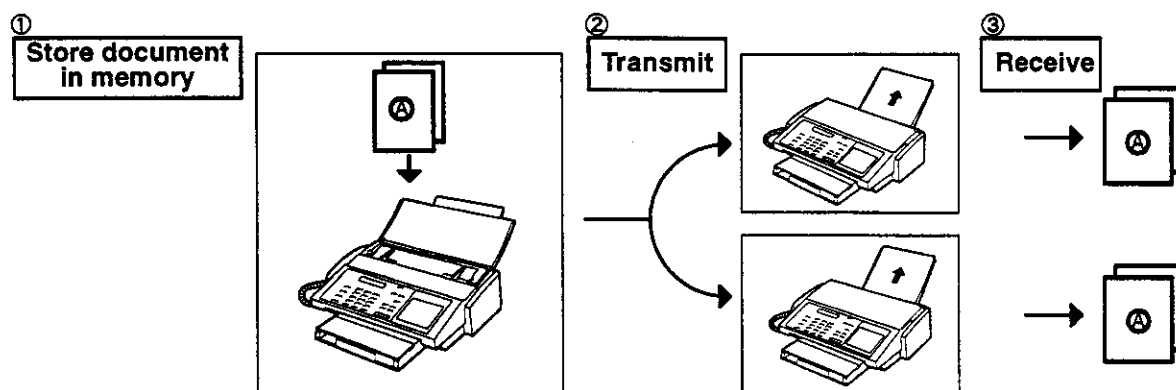
Sending Documents

Memory Transmission

Your machine quickly stores the document into the machine's memory.

Then, starts to dial the telephone number.

If the transmission fails, your machine will re-transmit the remaining unsuccessful page(s) automatically.



Note: 1. The File Number of the document being stored is shown at the upper right corner of the display while storing the document. It is also printed on the Communication Journal (COMM. JOURNAL), 32 Transaction Journal and File List. The percentage of memory used is shown on the lower right corner of the display after each page is stored.

```
* STORE *      NO.003
      PAGES=02   10%
```

```
* STORE * COMPLETED
TOTAL PAGES=05   30%
```

2. If a memory overflow occurs while storing documents into memory, the machine will prompt on the display, whether to start transmitting those pages which are successfully stored or to cancel the transmission. Press **[1]** to cancel; press **[2]** to transmit. See Specifications, page 96 for the image memory capacity.

```
MEMORY OVERFLOW
INFO. CODE=870
```

```
15 PAGES COMPLETED
DELETE? 1:YES 2:NO
```

3. An Information Code will be displayed if the transmission has failed or no answer at the receiving side after the last automatic redial. The document stored for this transmission will be erased from the memory automatically and the transmission is marked "INC" (incomplete) on the Communication Journal (COMM. JOURNAL).

```
INCOMPLETE
INFO. CODE=XXX
```

4. When a power failure occurs, the document information stored in the memory will be lost. In this case a Power Failure Report will be printed out automatically after the Power is turned ON again. The report is not printed out if there are no documents stored in the memory. (see page 80)

Sending Documents

Manual Number Dialling (Memory Transmission)

To dial the telephone number manually using the keypad, follow the steps below.

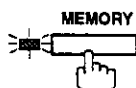
1



Set document(s) face down.

DOCUMENT SET
ENTER STATION 00%

2



Make sure that the MEMORY lamp is on.

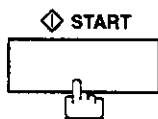
3

Enter a telephone number from the keypad.

Ex: **5 5 5 1 2 3 4**

TEL. NO.
5551234

4



* STORE * NO.002
PAGES=01 05%

* STORE * COMPLETED
TOTAL PAGES=05 25%

The document is stored into memory with a file number.
Then starts to dial the telephone number.

* DIALLING *
5551234



Note: 1. If you need a special access number to get an outside line, dial it first then press **PAUSE** to insert a pause (represented by a "-") before dialling the full number.
Ex: 9 PAUSE 5551234

2. If you are using Pulse dialling and you wish to change to Tone dialling in the middle of dialling, press **TONE** (represented by a "/").

The dialling mode will be changed from Pulse to Tone after dialling the digit "/".

3. To stop the transmission, press **STOP**.

The display shows;

COMMUNICATION STOP?
1:YES 2:NO

Press **1** to stop the transmission. The document you stored will be erased automatically.

Sending Documents

One-Touch Dialling (Memory Transmission)

One-Touch Dialling allows you to dial a full number by pressing a single key. To set One-Touch keys, see page 28.

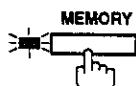
1



Set document(s) face down.

DOCUMENT SET
ENTER STATION 00%

2



Make sure that the MEMORY lamp is on.

3

Press a One-Touch key.

Ex:

ONE-TOUCH
<01>(Station name)

4



The document is stored into memory with a file number.
Then starts to dial the telephone number.

* STORE * NO.002
PAGES=01 05%

* STORE * COMPLETED
TOTAL PAGES=05 25%

Sending Documents

Abbreviated Dialling (Memory Transmission)

Abbreviated dialling is a speedy way to dial a frequently dialed telephone number by preprogram the telephone number in the built-in auto-dialer with a 2-digit abbreviated code. To program an abbreviated dialling number, see page 28.

1

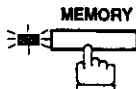


Set document(s) face down.

DOCUMENT SET	
ENTER STATION	00%

4

2



Make sure that the MEMORY lamp is on.

3

Press **ABBR** then enter a 2-digit code.

Ex: **ABBR** **1** **0**

ABBR
[10] (Station name)

4



The document is stored into memory with a file number.
Then starts to dial the telephone number.

* STORE *	NO.002
PAGES=01	05%

* STORE *	COMPLETED
TOTAL PAGES=05	25%

Sending Documents

Multi-Station Transmission (Broadcasting)

If you have to send a same document to multiple stations, you can save time in feeding the document by using memory transmission. That is, you can store the document into memory and then send it to the station(s) automatically.

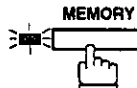
1



Set document(s) face down.

DOCUMENT SET	
ENTER STATION	00%

2



Make sure that the MEMORY lamp is on.

3

Dial by any combination of the following methods.

- Manual Number Dialling (Up to 3 stations)
- One-Touch Dialling
- Abbreviated Dialling

(For details, see page 43 to 45.)

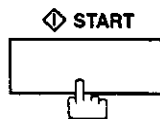
Ex:

ONE-TOUCH	
<01>(Station name)	

ABBR	STNS=002
[10](Station name)	

(When entering a station for Manual Number Dialling, press after each station is entered.)

4



The document is stored into memory with a file number. Then starts to dial the telephone number in sequence.

* STORE *	NO.001
PAGES=01	01%

* STORE *	COMPLETED
TOTAL PAGES=05	25%



Note: You can review the stations you entered in step 3 before storing your document into memory by pressing or . Press to clear an entered station show on display if needed.

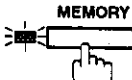
Sending Documents

Multifile Transmission

When you have to send several documents to different stations, you do not have to wait until each transmission is completed. You can store all the different documents into memory and program the machine to dial each telephone number for each document. Instead of sending the documents separately, you can reserve all the transmission at one time.

1  Set document(s) face down.

DOCUMENT SET
ENTER STATION 00%

2  Make sure that the MEMORY lamp is on.

3 Dial by any combination of the following methods.

- Manual Number Dialling (Up to 3 stations total in all files)
- One-Touch Dialling
- Abbreviated Dialling

(For details, see page 43 to 45.)

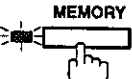
Ex:

ABBR 1 0

ONE-TOUCH
<01>(Station name)

ABBR STNS=002
[10](Station name)

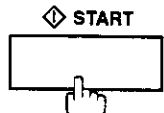
(When entering a station for Manual Number Dialling, press **SET** after each station is entered.)

4  to store the document into memory.
The document is stored into memory with a file number.

* STORE * NO.001
PAGES=01 01%

* STORE * COMPLETED
TOTAL PAGES=05 25%

5 Repeat step 1 through 4 for each document that you are sending. (see Note 3)

6  Your machine starts to dial the telephone number in sequence.

* DIALLING *
<01>(Station name)

- Note:**
1. You can review the stations you entered in step 3 before storing your document into memory by pressing **▲** or **▼**. Press **CLEAR** to clear an entered station show on display if needed.
 2. The home position of MEMORY key can be set by Fax Parameter No. 05.
 3. Up to 3 Memory Transmission files (2 Deferred Communication, 1 polling XMT file or a combination not exceed maximum 3 files) can be set.

Sending Documents

Redialling

Automatic Redialling

If the line is busy or there is no answer, your machine will redial the number up to 5 times at 3 minutes interval. During that time, a message will appear as shown to the right.

WAITING TO DIAL
(Telephone number)

- If the line is still busy after the last try, a message will appear as shown to the right and your machine will print out a COMM. Journal depending on the setting of Fax Parameter No. 12.

INCOMPLETE
INFO. CODE=630

- When transmitting from memory and there is no answer after the last try, the stored document will be automatically erased.

Manual Redialling

You can also redial the last dialed number manually by pressing the **[REDIAL]** key.

To redial the last dialed number through memory

1



Set document(s) face down.
Make sure that the MEMORY lamp is on.

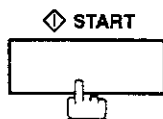
DOCUMENT SET
ENTER STATION(S) 00%

2



TEL NO.
5551234

3



The document is stored into memory with a file number.
Then dials the last dialed number.

* STORE * NO.002
PAGE=01 01%

To redial the last dialed number through ADF

1



Set document(s) face down.

2



* DIALLING *

3



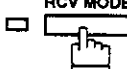
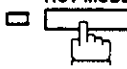
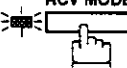
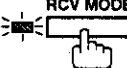
Your machine starts to dial the last dialed number.

* DIALLING *
5551234

Receiving Documents

Reception Modes

You can select one of the four modes as shown below.

Conditions	Suggested Reception Mode	Settings
You normally receive only voice calls.	<u>Telephone Mode</u> (Attended) You can answer the incoming call via the handset. If you receive a fax calling signal, simply press START to receive manually. (see page 54)	① Fax Parameter No. 15 set to 1 : Tel ②  Lamp : OFF
You receive both voice and fax calls.	<u>Fax / Tel Auto Switching Mode (see Note 2)</u> (Attended) Unit will answer the incoming call then distinguishes whether it is voice or fax call. If it is a fax call, the unit will receive automatically. if it is a voice call, the unit will signal (rings) through the speaker for your attention. (see page 55)	① Fax Parameter No. 15 set to 2 : Fax / Tel SW. ②  Lamp : OFF
You normally receive fax calls only.	<u>Fax Mode</u> (Unattended) Unit will receive the document automatically. All incoming calls (including a voice call) are answered by the fax machine. (see page 56)	① Fax Parameter No. 16 set to 1 : Fax ②  Lamp : ON
You receive both voice and fax calls. And a Telephone Answering Machine (TAM) is connected.	<u>TAM Interface Mode (see Note 2)</u> (Unattended) The TAM answers the incoming call. During that time, the unit also monitors whether it is a voice call, the TAM continue to operate. If it is a fax call, the unit will automatically switch the line to fax and begin receiving document. (see page 58)	① Fax Parameter No. 16 set to 1 : TAM I / F. ②  Lamp : ON



Note: 1. Depending on the model of the Telephone Answering Machine (TAM) that is connected, some of the feature may not be compatible with the your machine operating in the TAM Interface mode.
2. For some countries, this mode is not available because of the country's regulation and specification.

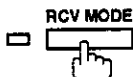
Receiving Documents

Telephone Mode

When your machine is set to this mode, your machine will not receive documents automatically. If you receive a fax call, follow the procedure to receive documents manually.

Setting the Telephone Mode

1 Change Fax Parameter No. 15 (ATTENDED MODE) to 1 : Tel. (see page 34)

2 

Confirm that the lamp is OFF and the display as shown to the right.

08-DEC-1993 15:00
RCV MODE=TEL 00%

Operation of Telephone Mode

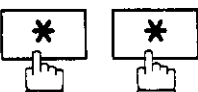
1 When your telephone rings, lift the fax handset or an extension phone.

If you hear a beep from the phone, it means someone wants to send a fax. Or, if the caller answers and says he/she wants to send a fax, then...

2 Remove the document from ADF, if any.

3a 

If you answered the call using the fax handset, (See Note 1)

3b  within 1 second from the extension phone. (see Note 2)

Your machine will be activated remotely.

4 Hang up the phone.

! **Note:** 1. If your machine does not have the handset, follow the step 3b.
2. This procedure is called "REMOTE RCV" and will work on a touch tone phone. If your extension phone is not touch tone phone, press **START** on the control panel of your fax machine.

Receiving Documents

Fax / Tel Auto Switching Mode

When your machine is set to this mode, your machine will switch to document reception or voice communication automatically.

Setting the Fax / Tel Auto Switching Mode

1 Change Fax Parameter No. 15 (ATTENDED MODE) to 2: Fax / Tel SW. (see page 34)



Confirm that the lamp is OFF and the display as shown to the right.

08-DEC-1993 15:00
RCV MODE=FAX/TEL 00%

Operation of Fax / Tel Auto Switching Mode

1 Your machine will soon answer the call when a call is received, then distinguish whether it is a voice or fax call.

If the call is a Fax call,

2a Your machine begins to receive the documents.

If the call is a Voice call,

2b Your machine begins signal (ringing) through the machine's speaker for your attention. (see Note)

3b Lift the fax handset and talk.
or

Lift the handset of your extension phone and press **STOP** to talk.

! **Note:** The length of time the machine signals can be changed by Fax Parameter No. 18 (OP CALL TIMER) and the volume can be set by Fax Parameter No. 10 (KEY/BUZZER VOLUME). (see page 34 and 35).

Receiving Documents

Fax Mode

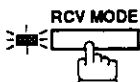
When your machine is set to this mode, it will immediately begin to receive documents automatically when a call is received.

Setting the Fax Mode

1

Change Fax Parameter No. 16 (UNATTENDED MODE) to 1: Fax. (see page 34)

2



Confirm that the lamp is ON and the display as shown to the right.

08-DEC-1993 15:00
00%

Operation of Fax Mode

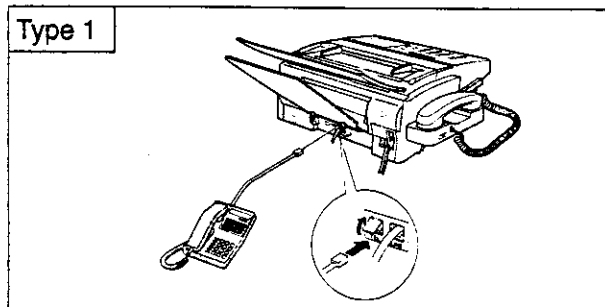
Your machine will soon begin receiving automatically when a fax call is received.

Receiving Documents

TAM (Telephone Answering Machine) Interface Mode

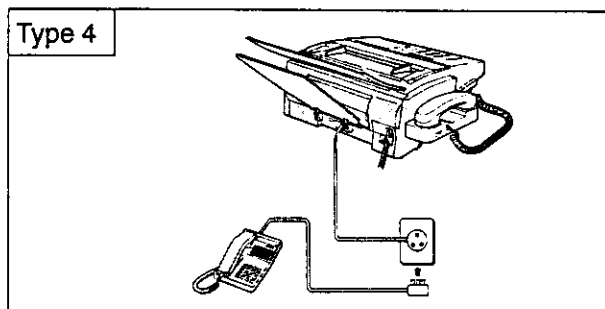
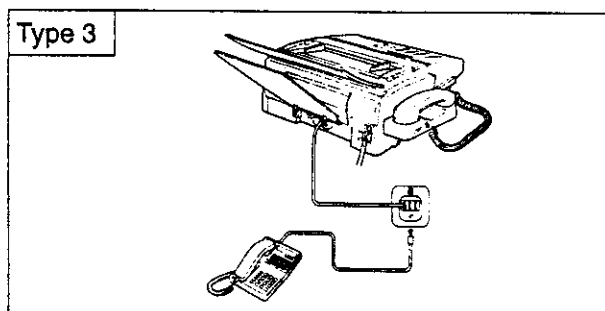
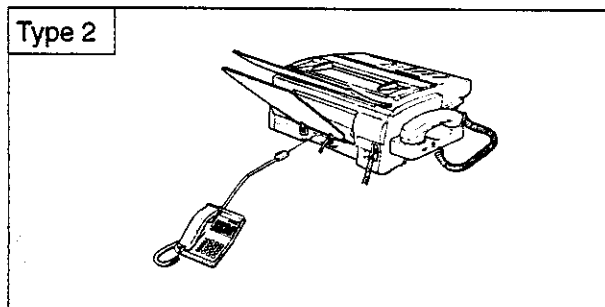
Your machine is equipped with a unique feature called TAM Interface which enables it to automatically switch a single telephone line either to Fax or TAM. You can connect most TAMs in the market to your machine and use your existing telephone line very efficiently. However, some TAMs may not be compatible with this machine. For the operation of your TAM, please refer to the User's Guide of the TAM.

Installing your TAM



① Remove the telephone line cord of your TAM from the wall jack.

② Plug the telephone line cord of your TAM into the TEL jack on the rear of the fax machine as shown.



Note: The connection method for TAM may differ depending on the each country regulation. Please follow the appropriate method for your country among above methods (Type 1 to 4). For details, please ask to your local Panasonic dealer.

Receiving Documents

Setting the TAM Interface Mode

1 Change Fax Parameter No. 16 (UNATTENDED MODE) to 2: TAM I / F. (see page 34)



Confirm that the lamp is ON and the display as shown to the right.

08-DEC-1993 15:00
RCV MODE=FAX/TAM 00%

Operation of TAM Interface Mode

1 When your TAM and Fax receives an incoming call, the TAM always answers the call first and then the TAM sends an OGM (Outgoing Message) recorded in your TAM to the calling station. During the time the TAM is answering the call, your fax machine will be monitoring the line to distinguish whether it is a voice or fax call.

If the call is Fax call,

2a Your machine will switch the line to the fax and then begins to receive the documents immediately from the calling station.

If the call is Voice call,

2b Your TAM continues to record a message (ICM) after sending out an OGM.

Sample of OGM

Hello, this is Smith. Sorry I am unable to take your call. Please leave your message after the beep or if you are calling to send a fax, press the asterisk button twice on your touch tone phone now and start your machine. Thank you for calling.

Receiving Documents

4
=

Print Reduction

This machine can use Letter, Legal or A4 size plain paper for recording. Sometimes, oversized documents sent to you by the other parties cannot be printed within a single page. When this occurs, the document will be divided into separate pages.

This machine is equipped with a Print Reduction function to solve this problem. You may select the most appropriate setting from the selections described below.

1. Automatic Reduction

Each page of a received document is first stored in memory. Based on the document length, your machine will automatically calculate the suitable reduction ratio (70% to 100%) to print the entire document on a single page. If the received document is extremely long (over 35% longer than the recording paper), the document will be divided into separate pages and printed with no reduction.

IMPORTANT !

This mode requires the entire page to be received into memory before printing. However, this mode is disabled automatically and fixed reduction mode will be used in the cases described below:

- a) Available memory is low
e.g. deferred transmission is stored in memory.
- b) Receiving documents with large amount of data
e.g. photo sent by halftone mode.

2. Fixed Reduction

You can predetermine the reduction ratio from 70% to 100% in 1% steps. The document you received will be reduced to this ratio regardless of the size.

Selecting the Print Reduction Mode

Set Fax Parameters as shown below. (see page 35)

1. To set Automatic Reduction mode.

- (1) No. 24 Print Reduction set to "Auto".

2. To set Fixed Reduction mode.

- (1) No. 24 Print Reduction set to "Fixed".

- (2) No. 25 Reduction Ratio set to any number between 70% through 100%. (see Note)

Ex: A4 to A4 – 94%

A4 to Letter – 90%

Letter to Letter – 94%

Legal to Letter – 75%



Note: If sending side is set to print the header on outside of the copy area, more reduction ratio will be required.

Receiving Documents

Substitute Memory Reception

If the recording paper runs out or jam or if the ink runs out during reception, the machine automatically starts receiving document into its image data memory. Stored documents are printed automatically after replacing the recording paper or print cartridge.

- 1 When the machine finishes the memory reception and there is no recording paper or ink, an Information Code appears on the display.

NO RECORDING PAPER
INFO. CODE=010

OUT OF INK
INFO. CODE=015

- 2 Install recording paper (see page 17) and press **START** or replace the print cartridge (see page 15).

The machine will automatically start printing the document stored in the memory.

* PRINTING *
MEMORY RCV'D DOC



- Note:**
1. If the memory overflows, the machine will stop receiving and release the communication line. The document(s) stored in the memory up to that moment will be printed out automatically.
 2. When a power failure occurs, the document information will be lost and a Power failure Report will be printed out. (see page 80)
 3. If you wish to turn off the substitute reception function, change the setting of Fax Parameter No. 22 to "Invalid" (see page 35).

Making Copies

Your machine has a copy function which can make single or multiple copies. When copying, your machine will automatically select Fine resolution, but you may select the Standard or Super Fine resolution.

1  Set document(s) face down.

DOCUMENT SET
ENTER STATION 00%

2 

* COPY *
NO. OF COPY=1

3 Enter the number of copies.
Ex:

* COPY *
NO. OF COPY=10

4 

* STORE * NO.005
PAGES=01 01%

* STORE * COMPLETED
TOTAL PAGES=05 25%

The machine stores the document, then prints out copies.

* COPY *
NO. OF COPY=01/10



- Note:**
1. Your machine will print the document with no reduction when making copy.
If you wish to enable reduction function in copy mode, change the setting of Fax Parameter No. 32 (COPY REDUCTION) to "Valid". (see page 35)
The reduction ratio will be fixed depending on the setting of Fax Parameter No. 24 (PRINT REDUCTION) and No. 25 (REDUCTION RATIO) after the Fax Parameter No. 32 is set to "Valid".
 2. The print quality is not different between Fine resolution and Super Fine resolution when making copy.

Using the Machine's Telephone

Making a Regular Call

[Note : This feature is only available from the handset of facsimile machine.]

You can use the handset on your machine to make regular calls. To do so, lift the handset and dial the full number just as you would using an ordinary telephone. If you wish, you can also use the One-Touch/ABBR. Number dialling.

- 1** Remove the document from the ADF.
- 2** Lift the handset.
- 3** Dial a number by using one of the following methods.
 - Manual Number Dialling
 - One-Touch Dialling
 - Abbreviated Dialling

Ex:

* PHONE OFF HOOK *

ONE-TOUCH
<02> (Station name)

* DIALLING *
555 1234

Making Voice Contact after Sending/Receiving

You may want to talk to the other person over the telephone after sending or receiving documents. To do so, perform Step 1 while the machine is still sending or receiving.

When sending

ON LINE * XMT *
ID: (Identification)

ON LINE * XMT * TEL
ID: (Identification)

ON LINE * XMT * TEL
OPERATOR CALLING

When receiving

ON LINE * RCV *
ID: (Identification)

ON LINE * RCV * TEL
ID: (Identification)

ON LINE * RCV * TEL
OPERATOR CALLING

1



When sending/receiving is over, you will hear a signal (ringing) through the monitor speaker.

2

Lift the handset and talk.

or

Lift the handset of your extension phone and press

to talk.

Answering a Voice Contact Request

When you hear a signal (ringing) through the monitor speaker, it means you are receiving a voice contact request. Follow the above Step 2 to talk.

Timer Controlled Communications

You can send a document to one or multiple stations at any preset time within the next 24 hours. Up to 2 built-in timers can be set for deferred transmission and deferred polling.

Deferred Transmission

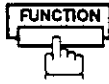
1



Set document(s) face down.

DOCUMENT SET
ENTER STATION 00%

2



DEFERRED COMM. NO.=
1:XMT 2:POLLING

3



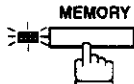
DEFERRED XMT
START TIME :

4

Enter start time using the keypad.
(Use a 4-digit, 24-hour clock)

Ex: (11:30 p.m.) and

5



(See Note 2)

DEFERRED XMT
ENTER STATION(S)

6

Dial by any combination of the following methods.

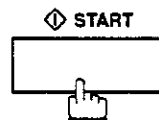
- Manual Number Dialling (Up to 3 stations)
- One-Touch Dialling
- Abbreviated Dialling

Ex:

(When entering a station for Manual Number Dialling, press after each station is entered.)

ONE-TOUCH
<02> (Station name)

7



to store documents into the memory.

* STORE * NO.002
PAGES=01 05%

* STORE * COMPLETED
TOTAL PAGES=05 30%



Note: 1. If you enter a wrong number in Step 4, press then re-enter the right number.

2. If you wish to send the document without storing into memory (memory may not be big enough for storing the entire document), skip step 5 and enter only one station in step 6. In this case the document will remain on the ADF for Timer Transmission after step 7.

If you reserved the deferred transmission without storing into memory, the display shows "TIMER" on the upper right corner after pressing in last step.

3. To change or cancel the Deferred Communication settings, see page 68 and 69.

4. Up to 2 Deferred Communication files (3 Memory Transmission, 1 polling XMT file or a combination not exceed maximum of 3 files) can be set.

5

Timer Controlled Communications

Deferred Polling

1



DEFERRED COMM. NO.=
1:XMT 2:POLLING

2



DEFERRED POLLING
PASSWORD=

3

Enter a 4-digit polling password.

Ex: 9 8 7 6 and SET

DEFERRED POLLING
START TIME :

4

Enter start time using the keypad.
(Use a 4-digit, 24-hour clock)

Ex: 0 3 3 0 (3:30 a.m.) and SET

DEFERRED POLLING
ENTER STATION(S)

5

Dial by any combination of the following methods.

- Manual Number Dialling (Up to 3 stations)
- One-Touch Dialling
- Abbreviated Dialling

Ex: 10

(When entering a station for Manual Number Dialling,
press SET after each station is entered.)

ONE-TOUCH
<10>(Station name)

6



* STORE * NO.001



Note: 1. If you enter a wrong number in Step 3, press CLEAR, then re-enter the right number.
2. To change or cancel the Deferred Communication settings, see page 68 and 69.

Polling

Polling means calling other station(s) to retrieve a document. The other station must know in advance that you will call and must have a document set on the ADF or stored in the memory. You may need to set a polling password, shared by the other station, to ensure security.

Setting Polling Password

If the polling password does not match with the polled station, your polling request will be refused automatically.

To set the polling password, follow the steps below.

1



SET MODE (1-5)
ENTER NO. OR ^ V

2



FAX PARAMETER(01-53)
NO.=

3



26 POLLING PASSWORD
■■■■

4

Enter a 4-digit polling password.

Ex: 1 2 3 4

26 POLLING PASSWORD
1234

5



- Note:**
1. Polling might not function with all fax machines. We suggest you attempt a trial polling before you actually poll important documents.
 2. If a password is not set in the polled station, you may poll the other station even though your machine has a password.

Polling

To Poll Documents from Another Station

The following procedure lets you poll a document from one or multiple stations (up to 53 stations). Be sure to set the polling password before polling (see page 65).

1



POLLING
PASSWORD=1234

2

Enter a 4-digit polling password.(see Note 2)

Ex: 1 1 1 1

POLLING
PASSWORD=1111

3



POLLING
ENTER STATION(S)

4

Dial by any combination of the following methods.

- Manual Number Dialling (Up to 3 stations)
- One-Touch Dialling
- Abbreviated Dialling

Ex: ABBR and 1 0

(When entering a station for Manual Number Dialling, press SET after each station is entered.)

ABBR
[10] (Station name)

5



* STORE * NO.001

* DIALLING *
[10] (Station name)



Note: 1. You can review the entered stations in step 5 by pressing $\wedge$ or $\vee$ key, press **CLEAR** to erase the displayed station as needed.

2. If you have set the polling password in Fax Parameter No. 26, the password will appear on the display. You can still change the password temporarily by overwriting it with a new one.

File Edit Mode

Your machine has a document image memory which enables you to reserve memory transmission, memory deferred transmission, memory polling and so on.

After reserving communications in memory, you may need to change the settings of the communications while it is still in memory. This section describes how to use the file editing features.

Printing a File List

The contents of the communication settings may have to be modified or deleted. To verify the contents, follow these steps below to print out a file list.

1  

2 

3 

EDIT MODE (1-4)
 ENTER NO. OR ^ V

1:PRINT FILE LIST?
 PRESS SET TO PRINT

* PRINTING *
 FILE LIST

5



Note: Your machine cannot print a File List when sending a document.

Sample File List

***** -FILE LIST- ***** DATE 08-DEC-1993 ***** TIME 12:00 *****						
(1)	(2)	(3)	(4)	(5)	(6)	
FILE	COMM. TYPE	CREATE TIME	START TIME	PAGES	DESTINATION(S)	
No.						
001	DEFERRED XMT	08-DEC 18:20	20:30	001	{01},{02},{03},<01> ☎ 555 1234	
002	MEM.DEF. XMT	08-DEC 18:20	22:30	003	{11},{12},{13},{16},{17}	
003	RCV TO MEMORY	07-DEC 22:00		002		
004	CONF. MAIL	08-DEC 03:15		005		
(7)						
-PANASONIC -						
*****-HEAD OFFICE ***** 201 555 1212- *****						
(9) (8)						

Explanation of Contents

- | | |
|------------------------------|---|
| (1) File number | |
| (2) Communication type | |
| (3) Stored date/time | :Date/time that these files were stored. |
| (4) Executing time | :If the file is Timer Controlled Communication, the start time is printed in this column. |
| (5) Number of stored page(s) | |
| (6) Destination | :ABBR. No./One-Touch No./Manual Dialling No. |
| (7) Own LOGO | :Up to 25 characters |
| (8) Own ID number | :Up to 20 digits |
| (9) Own Character ID | :Up to 16 characters |

File Edit Mode

Changing Start Time or Station of a File

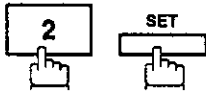
Follow these steps to change the start time and/or stations in a communication file.

1



EDIT MODE (1-4)
ENTER NO. OR ^ V

2



CHANGE TIME/STN
FILE NO.=■■■

3

Enter the file number you want to change.

Ex: 0 0 1

CHANGE TIME/STN
FILE NO.=001

4



DEFERRED XMT
START TIME 20:30

5

Enter a new start time.

Ex: 0 6 0 0 (6:00 AM)
(If you do not have to change the time, skip to step 6.)

DEFERRED XMT
START TIME 06:00

6



TEL NO.
5551234

7

To delete station(s), press ^ or V key until the station you want to delete appears. Then press CLEAR.

or

Enter the station(s) you want to add.

Ex: 02

DEFERRED XMT
ENTER STATION(S)

8



ONE-TOUCH
<02>(Station name)

File Edit Mode

Deleting File

Follow these steps to delete the file in memory.

1



EDIT MODE (1-4)
ENTER NO. OR ^ V

2



DELETE FILE
FILE NO.=■■■

3

Enter the file number you want to delete.

Ex: 0 0 1

DELETE FILE
FILE NO.=001

4



* DELETING *
FILE NO.=001

5

File Edit Mode

Printing Out a File

Follow these steps to print the contents of the communication file.

1



EDIT MODE (1-4)
ENTER NO. OR ^ V

2



PRINT FILE
FILE NO.=■■■

3

Enter the file number you want to print.

Ex: 0 0 1

PRINT FILE
FILE NO.=001

4



Your machine will print the file. The document will remain in memory even after printing the file.

* PRINTING *
PAGE=001/003



Note: Your machine cannot print out a file while machine is on line.

Selective Reception

Your machine has a special feature, Selective Reception, which can prevent the receiving of unnecessary document (i.e. junk fax, direct mail, etc.).

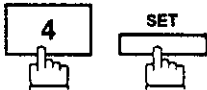
Before receiving the document, the last 4 digits of the ID Number received from the sending machine will be compared with the last 4 digits of the telephone number programmed in each One-Touch or Abbreviated station. When a match is found, your machine will start receiving the document. If a match is not found, your machine will cancel the reception and an Information Code 406 will be recorded on the Journal.

Setting Selective Reception

1



2



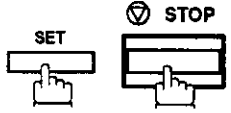
3



4



5



SET MODE (1-5)
 ENTER NO. OR ^ V

FAX PARAMETER(01-53)
 NO.=

46 SELECT RCV
 1:INVALID

46 SELECT RCV
 2:VALID

- !** **Note:**
1. When the Selective Reception is set, your machine can receive from only the 50 stations which are programmed in the built-in auto-dialer.
 2. If your ID number has not been set, your machine might not be able to receive from some models. To set your ID number, see page 25.



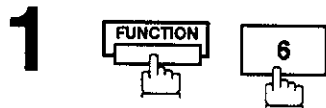
This page is intentionally left blank.

Journals and Lists

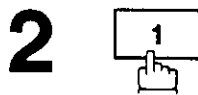
To help you maintain records of the documents you sent and received, as well as lists of the numbers you record, your facsimile machine is equipped to print the following journals and lists: 32 Transaction Journal, Individual Transmission Journal, Communication Journal, One-Touch/ABBR. No. List, Fax Parameter List, Power Failure Report and File List.

32 Transaction Journal

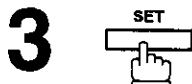
The "Journal" is a record of the last 32 transaction (a transaction is recorded each time you send or receive a document). It is printed out automatically after every 32 transaction, but you can print it manually using the following procedure:



PRINT OUT (1-7)
ENTER NO. OR ^ V



1: JOURNAL?
PRESS SET TO PRINT

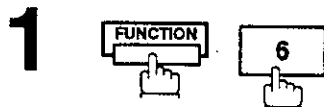


* PRINTING *
JOURNAL

! *Note: If you wish to disable the automatic print out of the 32 Transaction Journal, change the setting of Fax Parameter No. 13 to "Invalid". (see page 34)*

Individual Transmission Journal (IND. XMT JOURNAL)

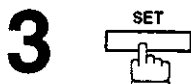
An Individual Transmission Journal contains information on the latest transmission.



PRINT OUT (1-7)
ENTER NO. OR ^ V



6: IND. XMT JOURNAL?
PRESS SET TO PRINT



* PRINTING *
IND. XMT JOURNAL

7
=

Journals and Lists

Sample Journal

***** -JOURNAL- *****									
(1)					(2)				
DATE 08-DEC-1993					TIME 12:00				
(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
NO.	COM	PAGES	FILE	DURATION	X/R	IDENTIFICATION	DATE	TIME	DIAGNOSTIC
01	OK	001		00:00'22	XMT	SERVICE DEPT.	07-DEC	17:35	C0044903C0000
02	OK	003		00:01'17	RCV	111 222 333	07-DEC	17:41	C0044903C0000
03	OK	001		00:00'31	XMT	ACCOUNTING DEPT.	07-DEC	17:50	C0044903C0000
04	630	000/005	021	00:00'00	XMT	342345676	07-DEC	17:57	0800420000000
05	S-OK	000		00:00'34	XMT	12324567	07-DEC	18:35	0210260200000
06	OK	001/001	022	00:00'20	XMT	44567345	07-DEC	18:44	C8044B03C0000
)									
31	OK	002/002	023	00:00'31	XMT	0245674533	08-DEC	08:35	C8044B03C1000
32	OK	003/003	024	00:01'32	XMT	0353678980	08-DEC	08:57	C8044B03C1000
(13)									
-PANASONIC									
***** -HEAD OFFICE *****									
(15)					(14)				
201 555 1212-									

Explanation of Contents

- (1) Printout date
- (2) Printout time
- (3) Journal number : 01-32 (Does not always begin with 01 when printed out manually)
- (4) Communication result : "OK" indicates that the communication was successful.
"S-OK" indicates that **STOP** was pressed during communication.
"P-OK" indicates that memory overflow or document misfeeding occurred when storing the documents in memory to send the document(s) but the successful stored document(s) was sent.
3-digit information code (see page 84) appears when there was a problem.
- (5) Number of pages transmitted or received : The 3-digit number is the number of pages successfully transmitted or received.
When the documents are stored into memory, two three-digit numbers will appear. The first 3-digit number represents the number of pages successfully transmitted. The second 3-digit number represents the total number of pages that were attempted to be transmitted.
- (6) File number : 001 to 255 (If the communication is stored into memory, a file number is assigned for each communication.)
- (7) Duration of communication
- (8) Type of communication : "XMT" means Transmission or Polled
"RCV" means Reception
"POL" means Polling
- (9) Remote station identification : Name : Recorded name in One-Touch or ABBR. Numbers or remote station's Character ID.
Number : Dialed telephone number (PIN code will not be shown)
Number : Remote station's ID number.
- (10) Communication date
- (11) Communication Start time
- (12) Diagnostic : For service personnel only
- (13) Own LOGO : Up to 25 characters
- (14) Own ID number : Up to 20 digits
- (15) Own Character ID : Up to 16 characters

Journals and Lists

Sample Individual Transmission Journal (IND. XMT JOURNAL)

```
***** -IND.XMT JOURNAL- ***** DATE 08-DEC-1993 ***** TIME 12:00 *****

(1)  DATE/TIME      = 08-DEC-1992 09:00
(2)  JOURNAL No.    = 21
(3)  COMM.RESULT    = OK
(4)  PAGE(S)        = 001
(5)  DURATION       = 00:00'16
(6)  FILE No.       =
(7)  MODE           = TRANSMISSION
(8)  DESTINATION    = [01] / 37 /ABCDEFGF
(9)  RECEIVED ID    =
(10) RESOLUTION     = STD

                                (11)
                                -PANASONIC
                                -

*****-HEAD OFFICE      -***** 201 555 1212- *****
                                (13)      (12)
```

Explanation of Contents

- | | |
|---|--|
| (1) Transmitted date and time | |
| (2) Journal number | |
| (3) Communication result | : "OK" indicates that the transmission was successful.
"S-OK" indicates that STOP was pressed during transmission.
"P-OK" indicates that memory overflow or document misfeeding occurred when storing the documents in memory to send the document(s) but the successful stored document(s) was sent.
3-digit information code (see page 84) appears when there was a problem. |
| (4) Number of pages transmitted or received | : The 3-digit number is the number of pages successfully transmitted or received. When the documents are stored into memory, two three-digit numbers will appear. The first 3-digit number represents the number of pages successfully transmitted. The second 3-digit number represents the total number of pages that were attempted to be transmitted. |
| (5) Duration of communication | |
| (6) File number | : 001 to 255 (When the communication is stored into memory, a file number is assigned for each communication.) |
| (7) Type of communication | : Transmission or memory transmission |
| (8) Destination | : If a One-Touch or ABBR was used for the transmission:
One-Touch or ABBR. No./Telephone Number/Recorded Name
If not : Telephone number |
| (9) Received remote station's ID | : Character ID/ID number |
| (10) Resolution | : "STD" means standard resolution
"FINE" means fine resolution
"S-FINE" means super fine resolution |
| (11) Own LOGO | : Up to 25 characters |
| (12) Own ID number | : Up to 20 digits |
| (13) Own Character ID | : Up to 16 characters |

7
=

Journals and Lists

Communication Journal (COMM. JOURNAL)

The Communication Journal (COMM. JOURNAL) lets you verify if transmission or polling was successful or not. You may select the printout condition (Off/Always/Inc. only) in Fax Parameter No. 12 (COMM. JOURNAL), see page 34.

Sample COMM. JOURNAL

*****-COMM. JOURNAL- *****DATE 08-DEC-1993 ***** TIME 12:00 ***** P.1				
(1) MODE = MEMORY TRANSMISSION FILE NO. = 079 (4)		(2) START=08-DEC 11:50		(3) END=08-DEC 12:00
(5) NO.	(6) COM	(7) ABBR/NTWK	(8) STATION NAME/ TELEPHONE NO.	(9) PAGES
001	OK	[01]	SERVICE DEPT.	001/001
002	OK	[02]	SALES DEPT.	001/001
003	OK	[03]	ACCOUNTING DEPT.	001/001
004	INC	⌘	021 111 1234	000/001
(10) -PANASONIC				
*****-HEAD OFFICE -***** 201 555 1212- *****				
(12)		(11)		

Explanation of Contents

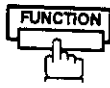
- (1) Indication of communication mode
- (2) Starting time of communication
- (3) Ending time of communication
- (4) File number
- (5) Communication number : 001 to 255 (When the communication is stored into memory, a file number is assigned for each communication.)
- (6) Communication result : "OK" indicates that the transmission was successful.
"INC" indicates that the transmission was not completed.
- (7) Abbreviated number or ☎ mark : ☎ mark indicates dialed by direct number dial.
- (8) Recorded name in One-Touch, ABBR. or direct dialing number
- (9) Number of pages transmitted or received : The 3-digit number is the number of pages successfully transmitted or received.
When the documents are stored into memory, two 3-digit numbers will appear. The first 3-digit number represents the number of pages successfully transmitted. The second 3-digit number represents the total number of pages that were attempted to be transmitted.
- (10) Own LOGO : Up to 25 characters
- (11) Own ID number : Up to 20 digits
- (12) Own Character ID : Up to 16 characters

Journals and Lists

One-Touch/Abbreviated List

To print a One-Touch/Abbreviated Number List of the telephone numbers you have stored.

1



PRINT OUT (1-7)
ENTER NO. OR ^ V

2



2:ONE-TCH/ABBR LIST?
PRESS SET TO PRINT

3



* PRINTING *
ONE-TOUCH/ABBR.LIST

7
=

Journals and Lists

Sample One-Touch List

```
*****-ONE-TOUCH LIST- *****      DATE 08-DEC-1993 ***** TIME 12:00 ***** P.1

(1)      (2)      (3)
ONE-      STATION NAME      TELEPHONE NO.
TOUCH

<01>      SERVICE DEPT.      121 555 1234
<02>      SALES DEPT.        222 666 2345
<03>      ACCOUNTING DEPT    313 333 3456

NO. OF STATIONS = 03 (4)

(5)
-PANASONIC

*****-HEAD OFFICE      -***** -      201 555 1212- *****
(7)                                     (6)
```

Sample ABBR. Number List

```
*****-ABBR. NO. LIST- *****      DATE 08-DEC-1993 ***** TIME 12:00 ***** P.1

ABBR      STATION NAME      TELEPHONE NO.
NO.

[01]      ENG. DEPT.        888 555 1234
[02]      PURCHASE DEPT.    999 666 2345
[03]      REGULATION DEPT    777 333 3456

NO. OF STATIONS = 03

-PANASONIC

*****-HEAD OFFICE      -***** -      201 555 1212- *****
```

Explanation of contents

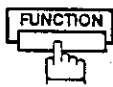
- | | |
|--|---|
| (1) One-Touch number or Abbreviated number | : <nn> = One-Touch number, [nn] =Abbreviated number |
| (2) Station name recorded in the machine | : Up to 15 characters |
| (3) Telephone number recorded in the machine | : Up to 36 digits |
| (4) Number of recorded One-Touch and ABBR. numbers | |
| (5) Own LOGO | : Up to 25 characters |
| (6) Own ID number | : Up to 20 digits |
| (7) Own Character ID | : Up to 16 characters |

Journals and Lists

FAX Parameter List

To print out a FAX Parameter List:

1



PRINT OUT (1-7)
ENTER NO. OR ^ V

2



4:FAX PARA LIST?
PRESS SET TO PRINT

3



* PRINTING *
FAX PARAMETER LIST

7

Sample FAX Parameter List

***** -FAX PARAMETER LIST- ***** DATE 08-DEC-1993 ***** TIME 20:00 *****						
(1) PARAMETER NUMBER	(2) DESCRIPTION	(3) SELECTION			(4) CURRENT SETTING	(5) STANDARD SETTING
01	ORIGINAL (HOME)	(1:Normal	2:Light	3:Dark)	1	1
02	RESOLUTION (HOME)	(1:Standard	2:Fine	3:S-Fine)	2	1
04	STAMP (HOME)	(1:Off	2:On)		1	1
(	(	(	(	(	(	(
47	REMOTE RCV	(1:Invalid	2:Valid)		2	2
52	REMOTE DIAGNOSTIC	(1:Invalid	2:Valid)		1	1
53	OPTION MEMORY				(256K+None)	(6)
		(7)				
		-PANASONIC				
*****-HEAD OFFICE (9) -***** 201 555 1212- ***** (8)						

Explanation of Contents

(1) Parameter number		(5) Standard setting	: Factory preset standard setting
(2) Description	: "(HOME)" means home position setting.	(6) Memory sizes	: (Base memory + option memory)
(3) Selection		(7) Own LOGO	: Up to 25 characters
(4) Current setting	: "----" indicates code or password is not set. When the code or password is set, it is shown in parenthesis.	(8) Own ID number	: Up to 20 digits
		(9) Own Character ID	: Up to 16 characters

Journals and Lists

Power Failure Report

If a power failure occurs, the document information stored in machine's memory will be lost. In this case, a Power Failure Report will be printed automatically for each file separately after the Power is turned ON again. This report is not printed if there were no files in the memory.

Sample Power Failure Report

*****-PWR FAILURE REP- ***** DATE 08-DEC-1993 ***** TIME 12:00 ***** P.1

POWER FAILURE OCCURRED !

MODE = MEMORY TRANSMISSION (1)

FROM *** 08-DEC-1993 10:00'24 *** (2)

TO *** 08-DEC-1993 12:00'26 *** (3)

FOLLOWING FILE HAS BEEN LOST.

(4) FILE NO.	(5) ABBR/NTWK	(6) STATION NAME/ TELEPHONE NO.	(7) PAGES
001	[04]	ENGINEERING DEPT.	000/005

(8)
-PANASONIC

*****-HEAD OFFICE
(10)

-*****-

201 555 1212- *****
(9)

Explanation of Contents

- | | |
|---|--|
| (1) Communication mode | |
| (2) Power failure date and time | |
| (3) Power return date and time | |
| (4) File number | : 001 to 255. |
| (5) One-Touch number and ABBR. number | : <nn> = One-Touch number, [nn] = Abbreviated number |
| (6) Station name in the One-Touch/ABBR. key or telephone number | |
| (7) Number of pages stored | : The first three-digit number represents the number of pages successfully transmitted. The second three-digit number represents the number of pages stored into memory. |
| (8) Own LOGO | : Up to 25 characters |
| (9) Own ID number | : Up to 20 digits |
| (10) Own Character ID | : Up to 16 characters |

Troubleshooting

If You Have Any of These Problems

Mode	Symptom	Action	Page
During Installation Problem	The display is blinking	Battery discharged completely. This may happen at first installation. After setting the clock, the blinking will stop.	—
During Transmission Problems	Document doesn't feed/multiple feed	1. Check that your document is free of staples and paper clips, and that it is not greasy or torn. 2. Check that your document is the right type to send through a fax machine by consulting the list on "Documents You Cannot Send". If your document has the characteristics listed, make a photocopy of your document and send the copy instead. 3. Check that the document is loaded properly. 4. Adjust the ADF Pressure Plate.	 37 38 92
	Document jam	The information code 031 will appear on the display if the document becomes jammed.	87
	Does not stamp	1. Check if Stamp LED is lit. 2. Check Fax parameter No. 04 and No. 28 settings.	 40 34,35
	Stamp too light	Replace stamp or refill ink.	93
Transmission Copy Quality Problems	Vertical lines on the transmitted document	Check own copy quality. If copy is OK, your machine has no problem, report to receiving party that they have a problem. If copy is NG, clean the Document Scanning Area.	91
	Transmitted document is blank	1. Make sure the document is set face down. 2. Check own copy quality. If copy is OK, your machine has no problem, report to receiving party that they have a problem.	—
During Reception Problems	No recording paper	The information code 010 will appear on the display if the paper runs out.	17
	Recording paper jam	The information code 001, 002 or 016 will appear on the display if the paper gets jammed.	86
	Recording paper doesn't advance into machine	Make sure that there is paper in the Paper Supply Tray. Follow instructions for loading paper.	17
	Recording paper doesn't eject after printing	Check to see if the recording paper is jammed inside of the machine.	86
	Document auto reduction doesn't work	Check Print Reduction settings.	59
	Out of ink	The information code 015 will appear on the display if the Print Cartridge runs out of ink.	15

Troubleshooting

Mode	Symptom	Action	page
Print Copy Quality Problems	Vertical lines printing on the received document	Printout a Journal report (e.g. FUNCTION, 6, 1 and SET) and check quality to make sure if your machine has trouble or not. If Journal report quality is OK, your machine has no problem, report to sending party that they have a problem. If copy is NG, replace the Print Cartridge.	73 88
	Fuzzy print	1. Make sure you are using the correct paper for the best possible print quality. 2. Try reversing the recording paper to the other side.	97
	Missing dots or lines/inconsistent darkness within print	1. Make sure you are using the correct paper for the best possible print quality. 2. Replace Print Cartridge.	97 15
Print Copy Quality Problems	Fading print	The Print Cartridge may be running out of ink. Replace Print Cartridge.	15
	Faint print	You may need to choose a different paper for the best possible print quality.	97
Communication Problems	No dial tone	1. Check the connection of telephone line. 2. Check the telephone line.	94
	No auto answer	1. Check the connection of telephone line. 2. Check Reception mode setting. 3. Check if machine is printing a report. (e.g.: 32 Transaction Journal, Fax Parameter List). If machine is printing a report, machine cannot receive until printing is completed. 4. If the printed document is 32nd Transaction, machine will usually print the 32 Transaction Journal automatically after printing out the document. In this case, machine cannot receive until the 32 Transaction Journal has been printed.	94 53
	Cannot transmit or receive	An information code will be shown on the display. Refer to the information code table to find out the trouble.	84
No Unit Operation	No unit operation	To reset the machine, turn-off the Power Switch for a few second then turn-on again.	

Troubleshooting

Mode	Symptom	Action	page
TAM Interface Trouble In Unattended TAM I/F Mode	Cannot utilize the remote turn-on feature of the telephone answering machine (TAM). The fax machine always answers after the 8th ring.	This feature is not compatible. The fax machine is designed to answer after 8 rings if the TAM does not answer.	—
	Fax machine will not start up when the telephone answering machine is set to give only an outgoing message (OGM).	TAM give outgoing announcement only is not compatible. The fax machine will work with a TAM that will record Incoming message (ICM).	—
	A beep...beep sound is recorded on the telephone answering machine.	Speak a little slower between each word while recording an outgoing message (OGM).	—
	Fax machine start up in the middle of the outgoing message even through the caller wants to leave a voice message.	Make sure the outgoing message (OGM) does not have a silent pause longer than 5 seconds.	—
	Cannot record any incoming message (ICM). The fax machine always starts up at the end of the OGM and before the tape advances to the end of last ICM.(Your TAM only uses a single cassette tape to give OGM and to record ICM.)	Set Fax Parameter No. 20 (Silent Detection) to "Invalid". And, instruct the calling party to press * twice on their touch-tone phone during the OGM to start up your fax machine remotely.	35
	Cannot receive from a machine that does not send CNG signal (a short beep tone every 3 seconds) after dialing.	Set Fax Parameter No. 20 (Silent Detection) to "Valid". Or, Instruct the calling party to press * twice on their touch-tone phone during the OGM to start up your fax machine remotely.	35
	Cannot retrieve message from the answering machine remotely, the fax machine always starts up after the command code is entered.	Set Fax Parameter No. 20 (Silent Detection) to "Invalid".	35
	Cannot receive a fax message, but can record voice message.	Check your outgoing message, if it is too long, the calling fax machine may have timed out. Try shorten your outgoing message to less than 15 seconds, or ask the calling party to program your telephone number in their fax machine with 3 pauses and a "#" at the end.(ex. 5551212 PAUSE PAUSE PAUSE #)	—
TAM Interface Trouble In Unattended Fax Mode	Fax machine will not start to receive with the telephone answering machine in the auto-answer mode.	Increase the ring count for detection on the telephone answering machine.	—

Troubleshooting

Information Codes

When something unusual occurs, the display may show one of the Information Codes below. These will help you to identify and correct the problem.

Info. Code	Meaning	Action	Page
001/002	Recording paper jam.	Remove jammed paper.	86
010	No recording paper.	Load the paper.	17
014	Print Cartridge is not installed.	Install the Print Cartridge.	15
015	Out of ink.	Replace the Print Cartridge.	15
016	Print Cartridge Cradle can not move.	Paper jam may occur. Remove jammed paper.	86
030	Document misfeeding.	1. Reload the document properly.	38
		2. Remove document jam.	87
		3. Adjust ADF.	92
031	Document paper is too long or jammed. Document length exceeds 78.8 inches (2 meters).	1. Reload the document properly.	38
		2. Remove document jam.	87
060	Printer Cover is opened.	Close the Printer Cover.	—
061	ADF Door is opened.	Close the ADF Door.	—
400	During initial handshake, receiving station did not respond or communication error occurred.	1. Check with other party. 2. Reload the document and send again.	—
401	Remote Station required Receiving Password to receive the document.	Check with the remote station.	—
402	During initial handshake, communication error occurred.	Reload the document and send again.	—
403	No polling capability at the remote side.	Ask remote side to set "POLLED=ON".	—
404/405	During initial handshake, communication error occurred.	Reload the document and send again.	—
406	Received from an unauthorized station in Selective Reception mode.	Check the telephone number in One-Touch or Abbreviated station.	71
407	No confirmation from the receiving station for the previous page sent.	Wait a few minutes and send again.	—
408/409	Remote side confirmation of previous page is illegible.	Wait a few minutes and send again.	—
411	Polling password does not match.	Check polling password.	65
412	No data from the transmitting side.	Check with the other party.	—
414	Polling password does not match.	Check polling password.	65
415	Polling transmission error.	Check polling password.	65
416/417 418/419	Received data has too many errors.	Check with the other party.	—

Troubleshooting

Info. Code	Meaning	Action	Page
420	Machine goes to receiving mode, but receives no command from the transmitting side.	1. Remote side misdial. 2. Check with the other party.	—
422/427	Interface is incompatible.	Check with the other party.	—
430/434	Communication error occurred while receiving.	Check with the other party.	—
436/490	Received data has too many errors.	Check with the other party.	—
492/493 494	Communication error occurred while receiving.	Check with the other party.	—
495	Telephone line disconnected.	Check with the other party.	—
540/541 542 543/544	Communication error occurred while transmitting.	1. Reload the document and send again. 2. Check with the other party.	—
550	Telephone line disconnected.	Check with the other party.	—
552/553 554/555	Communication error occurred while receiving.	Check with the other party.	—
623	No document was on the ADF.	Reload the document and send again.	—
630	Redial was not successful due to a busy line or no response from the called station.	Reload the document and send again.	—
631	During dialing, STOP was pressed.	Reload the document and send again.	—
634	Redial was not successful due to a busy line or no response from the called station.	Reload the document and send again.	—
638	Power failure occurred during the communication.	Check the power cord and plug.	18
870	Memory overflow occurred while storing documents into memory for transmission.	Transmit documents without storing into memory.	41
879	Memory overflow occurred while receiving documents into memory. Receiving documents with data that is greater than the memory size.	Check recording paper and print cartridge.	15 17
975	DRAM parity error. The document information in memory is lost.	1. Unit will print out a Power Failure Report. 2. Resend the lost document.	80

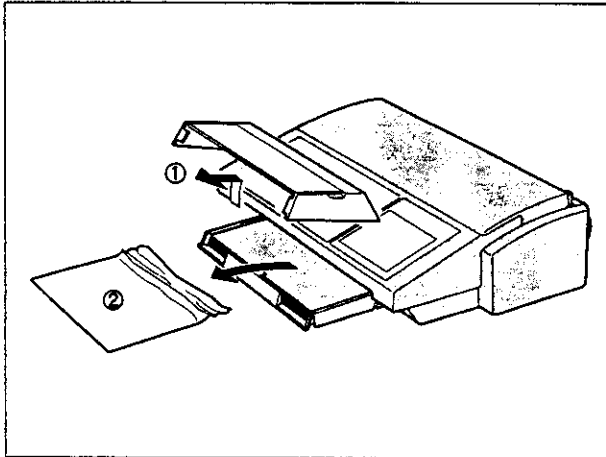
Troubleshooting

Clearing Recording Paper Jam

If the recording paper becomes jammed in the machine, the display will show Information Code 001, 002 or 016.

To clear the jam, Info. Code 001

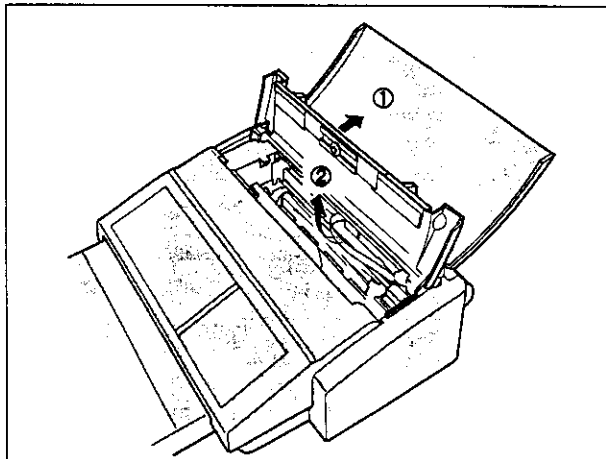
1



- ① Remove the Recording Paper Cover.
- ② Remove the jammed paper.
- ③ Press **STOP**.
- ④ Re-install the Recording Paper Cover.

To clear the jam, Info. Code 002 or 016

2



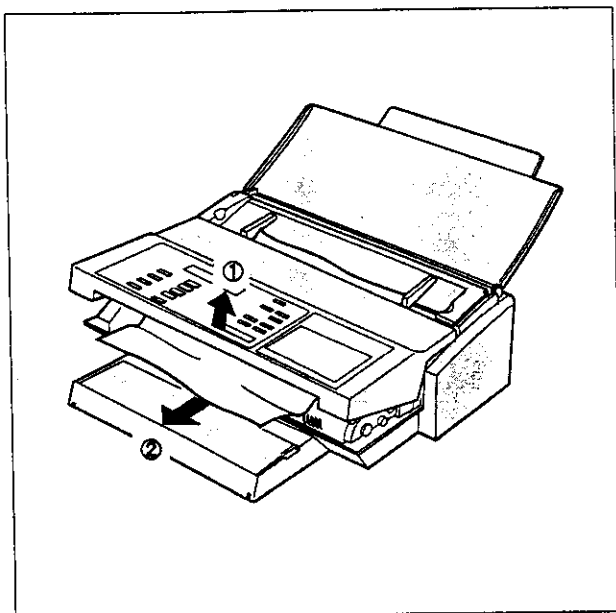
- ① Open the Printer Cover.
- ② Remove the jammed paper.
- ③ Close the Printer Cover.

Troubleshooting

Clearing a Document Jam

If a document becomes jammed in the machine, the display will show the Information Code 031.

To clear the jam



- ① Remove the documents from ADF and open the ADF Door.
- ② Remove the jammed paper.
- ③ Close the ADF Door.

Troubleshooting

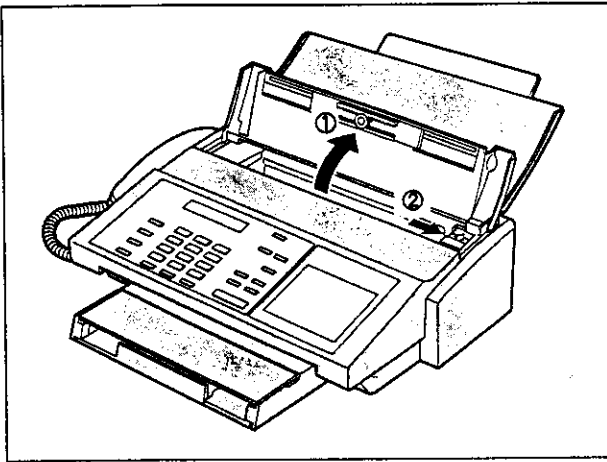
Replacing the Print Cartridge

When the ink decreases to a level requiring replacement, the display shows the code 015.

[!] *Note: If your machine detect Out-of-ink even though the cartridge has still enough ink, remove the cartridge and shake the cartridge up and down until the ink is jetted from the nose. Then, re-install the cartridge.*

To replace the Print Cartridge

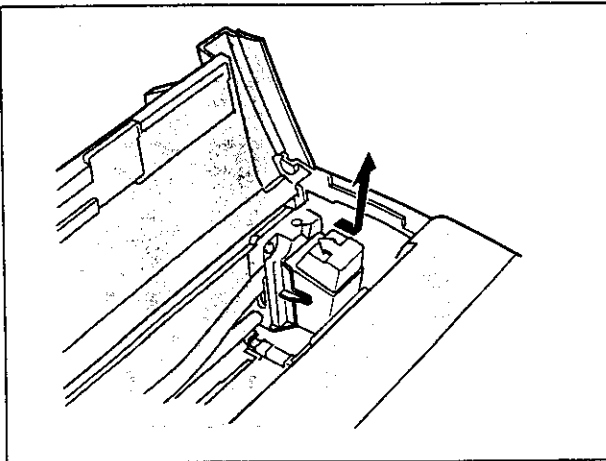
1



① Open the Printer Cover.

② Slide the Cradle to the right.

2



① Pull the Cartridge forward until the Cartridge "pops" loose. Lift the Cartridge out of the Cradle by the green arrow on the top of the Cartridge and discard it.

② Set new Cartridge, then close Printer Cover.
(see page 15)

Maintaining Print Quality : Keep the print cartridge in the cradle at all times. Removing the cartridge will expose it to air, causing the ink to evaporate, and degrade the print quality. Keep the print cartridge in its "home" position when the printer is not being used. Leaving it out of position will cause the ink to evaporate quickly.

Storing Print Cartridge : The following instructions will help you when storing unused print cartridges.

- Keep the print cartridge in its sealed container until you are ready to use it.
- Store the print cartridge container at room temperature.
- Check the expiration date on the cartridge package and use before that date.
- Install the print cartridge in the cradle immediately after opening the sealed container.

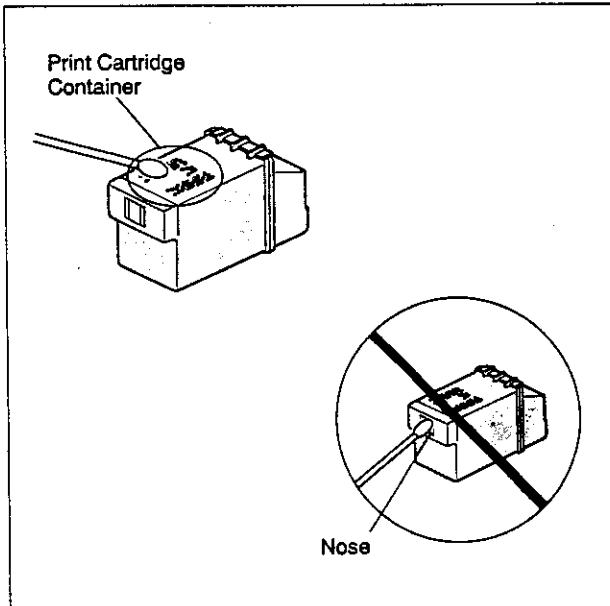
Troubleshooting

Cleaning the Print Cartridge Contact

If the received document has dots or lines missing, check the Print Cartridge.

To clean the Print Cartridge

1



① Turn off the power. (see page 18)

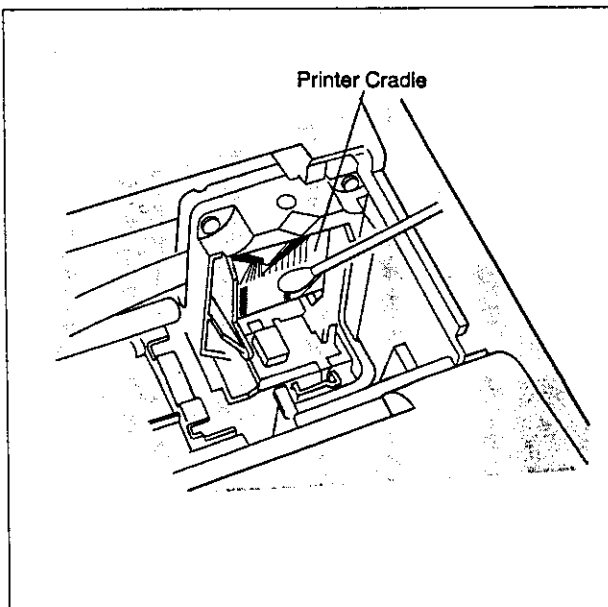
② Open the Printer Cover. (see page 15)

③ Remove the Cartridge from the Cradle. Gently clean the contact on the Printer Cartridge with a swab moistened only with water.

DO NOT clean the "Nose" of the Printer Cartridge.

8

2



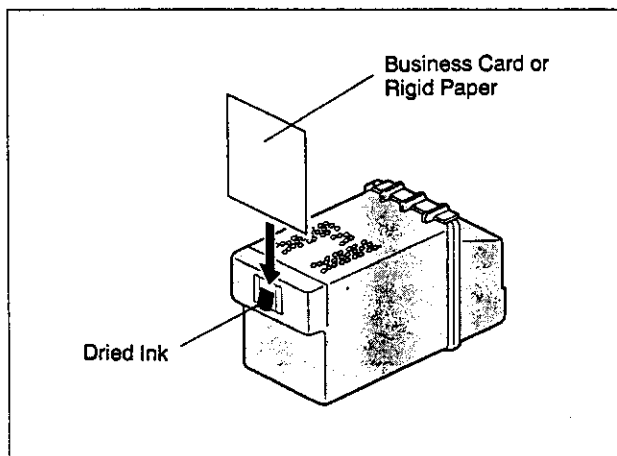
① Gently clean the contact on the Printer Cradle with a swab moistened only with water.

② Re-install the Printer Cartridge and reevaluate the print quality.

Troubleshooting

Removing Dried Ink from the Print Cartridge Contact

If print cartridge is exposed to air for an extended period of time, a layer of dried ink will form as crust on the nose of the print cartridge. If this occurs, follow the steps below to remove the dried ink from the nose of the print cartridge.



- ① Hold the print cartridge over a waste can so that the nose of the print cartridge is pointed toward the waste can.
- ② Gently scrape the dried ink with the edge of a business card or other rigid paper stock so that the dried ink falls into the waste can.

DO NOT use a swab to remove dried ink from print cartridge.

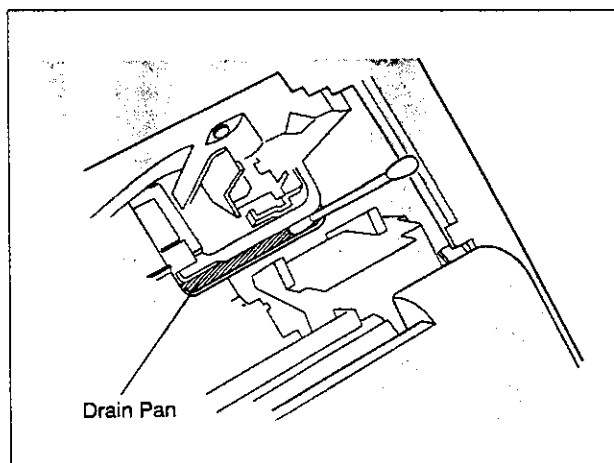


Note: It is recommended to make a copy on the machine at least once a week to prevent ink from drying on the nose of the print cartridge.

Cleaning the Drain Pan

To prevent spillage, always clean the Drain Pan of excess ink before moving the machine.

To clean the Drain Pan



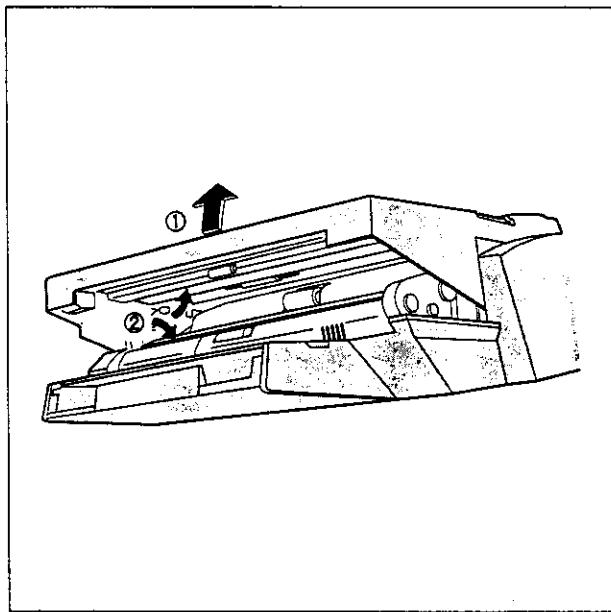
- ① Open the Printer Cover.
- ② Remove Print Cartridge.
- ③ Inspect the Drain Pan for excess ink. If necessary, clean up the excess ink with a swab or a paper towel.

Troubleshooting

Cleaning the Document Scanning Area

If the receiving party reports that the received documents were black, or contained black lines, try making a copy on your unit to verify. If the copy is black or has black lines, the document scanning area is probably dirty and must be cleaned.

To clean the scanning area



① Open the ADF Door.

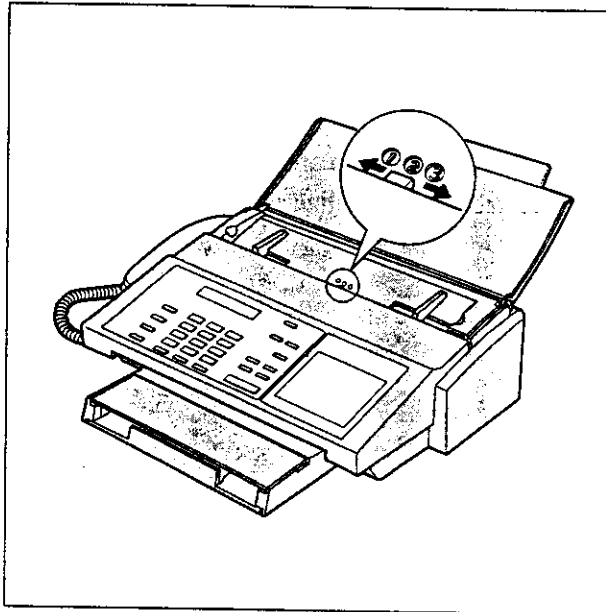
② Wipe the scanning area gently with a soft cloth or gauze wet with ethyl alcohol. Be sure to use a clean cloth, the scanning area can be easily scratched.

Troubleshooting

Adjusting the Automatic Document Feeder (ADF)

If document misfeeding occurs frequently, we suggest you to adjust the ADF.

To adjust the ADF



Slide the Pressure Adjusting Lever to the desired position depends on the condition.

Position	Condition
1	To prevent no feed trouble
2	Standard position
3	To prevent multiple feed trouble

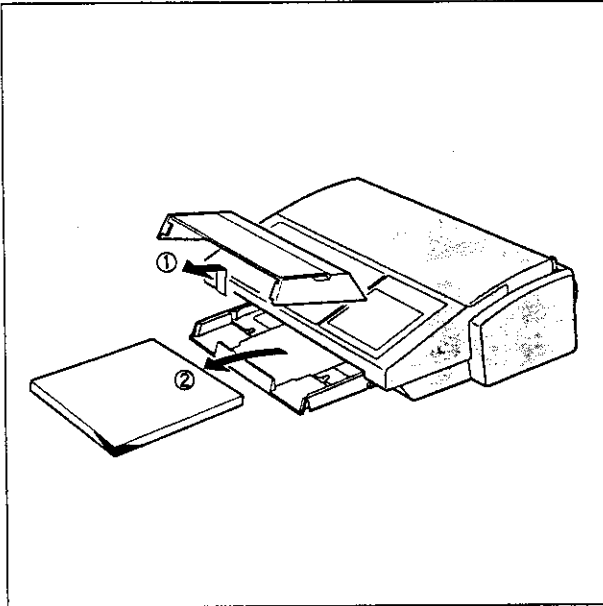
Troubleshooting

Verification Stamp

The Verification Stamp contains ink. When the stamp mark appears faded or hard to see, the stamp should be replaced or refilled with ink.

To remove the stamp

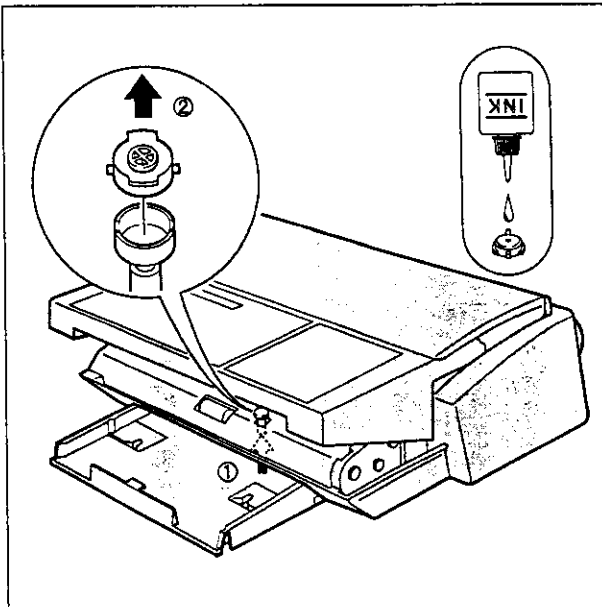
1



① Remove the Recording Paper Cover.

② Remove the Recording Paper.

2



① Push up on the Stamp Shaft from under the machine. Then, remove it.

② Remove the Verification Stamp. Replace the stamp with a new one or refill the stamp with a few drops of the specified ink into the back of the stamp.



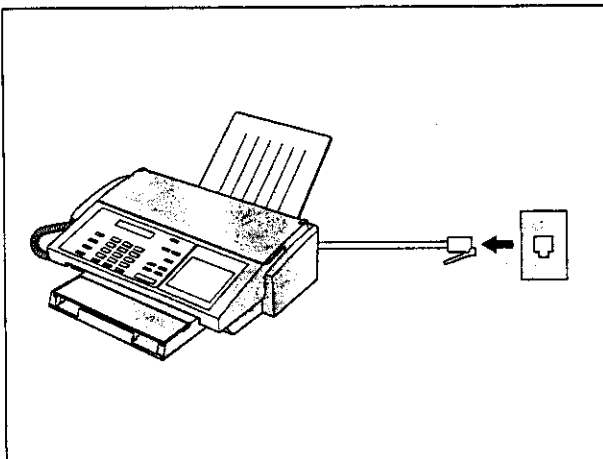
Note: Please contact your local Panasonic dealer to purchase a new stamp. See page 98 for order number.

Troubleshooting

Checking the Telephone Line

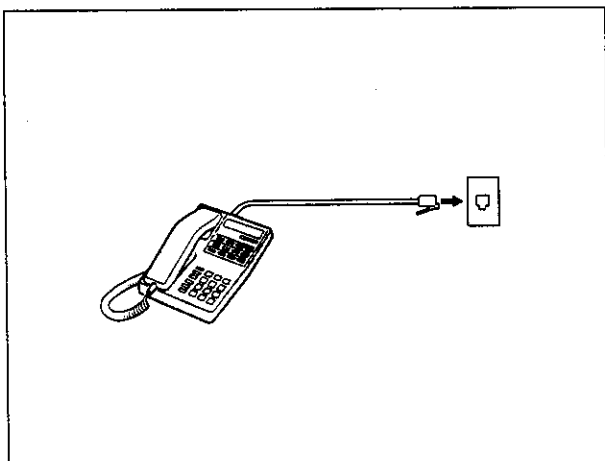
When you do not hear a dial tone through the telephone connected to the machine or when the telephone does not ring (No automatic receive).

1



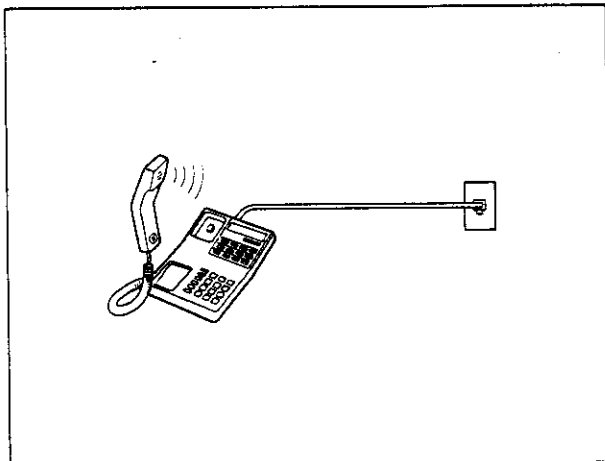
Unplug the Telephone Line Cord from the telephone jack that was supplied by the telephone company.

2



Plug a different regular telephone into the same telephone jack.

3



Check for dial tone through the handset. If there is still no dial tone, report it to your local telephone company.

or

Call from another telephone to this number. If the telephone does not ring, report it to your local telephone company.

Specifications

Compatibility

CCITT Group 3

Scanning Method

Flat bed scanning with CCD type image sensor

Document Size

Max. : 280 mm x 2000 mm
(with operator's assistance)
Min. : 148 mm x 128 mm

Document Thickness

Single sheet : 0.06mm (45 g/m²) to 0.15mm (112 g/m²)
Multiple sheets : 0.06mm (45 g/m²) to 0.12mm (75 g/m²)

ADF Capacity (Automatic Document Feeder)

Built-in, up to 30 sheets
Note : The document limitation to send multiple pages is as follows.

	Document Size	Document Thickness
Up to 20 pages	Up to 280 mm x 364 mm	0.06 mm to 0.12 mm
Up to 30 pages*	A4 size or Letter size	0.06 mm to 0.10 mm

* Paper that have rough surface may not be able to utilize all 30 pages even if the size and thickness specification are met.

Effective Scanning Width

208 mm

Recording Method

Thermal Inkjet Recording Head

Recording Paper

Plain Paper

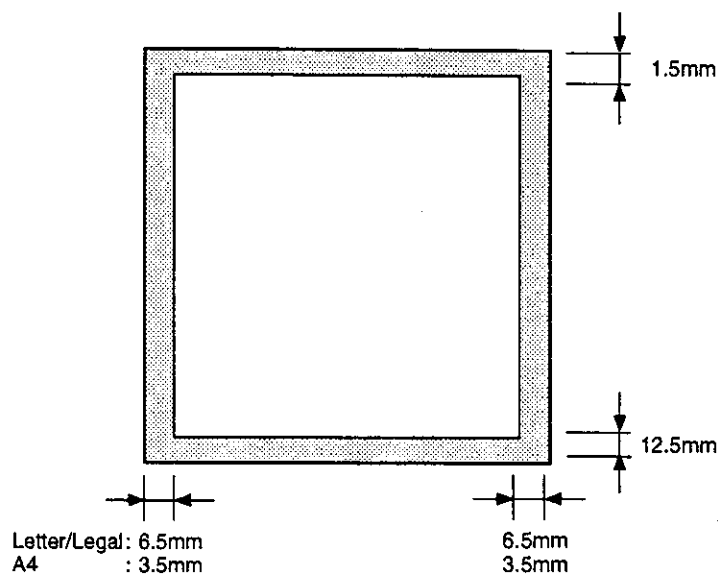
Recording Paper Size

Letter / Legal / A4

Effective Recording Size

Letter : 203 mm x 265 mm
A4 : 203 mm x 283 mm
Legal : 203 mm x 342 mm

Print Margin



Specifications

Recording Paper Capacity	Approx. 100 sheets (using 75 g/m ² paper)		
Resolution	<u>Horizontal</u>		<u>Vertical</u>
	CCITT Standard mode	203 pels/inch (8 pels/mm)	x 98 lines/inch 3.75 lines/mm)
	CCITT Fine mode	203 pels/inch (8 pels/mm)	x 196 lines/inch 7.7 lines/mm)
	CCITT Super Fine mode (Transmission only)	203 pels/inch (8 pels/mm)	x 392 lines/inch 15.4 lines/mm)
	CCITT 300dpi mode (Reception only)	300 pels/inch (11.8 pels/mm)	x 300 lines/inch 11.8 lines/mm)
Coding Scheme	MH, MR, MMR (Conform to CCITT)		
Modem Type	CCITT V.29, V.27 ter and V.21		
Modem Speed	9600, 7200, 4800, 2400 and 300 bps		
One-Touch/Abbreviated Dialing Memory Capacity	50 stations (including 16 One-Touch keys Each station can register up to 36 digits for each telephone number (including pauses and spaces) and up to 15 characters for each station name		
Image Memory Capacity	Approx. 12 pages (Standard base memory) Approx. 42 pages (with optional 512 KB IC Memory Card) Approx. 72 pages (with optional 1 MB IC Memory Card) Approx. 132 pages (with optional 2 MB IC Memory Card) (Based on CCITT Test Chart No.1 using Standard Resolution)		
Power Supply	180-264 VAC, 47-63Hz, Single Phase : 200 V version (108-132 VAC, 47-63Hz, Single Phase : 100 V version)		
Power Consumption	Standby	: Approx. 11W	
	Transmission	: Approx. 25W	
	Reception	: Approx. 16W	
	Copy	: Approx. 29W	
	Max	: Approx. 40W	
Dimensions	401 mm (W) x 379 mm (D) x 154 mm (H) (excluding Projections)		
Weight	Approx. 8.3 Kg (excluding consumable supplies and options)		
Operating Environment	Temperature	: 5 to 35°C	
	Relative Humidity	: 15 to 70%	
Optimum Printing Environment	Temperature	: 15 to 35°C	
	Relative Humidity	: 20 to 70%	

Recording Paper Specifications

In general, most bond papers will produce excellent results. Most photocopy papers will also work very well. There are many "name" and "generic" brands of paper available. We recommend that you test various papers until you obtain the results you are looking for.

The following table summarizes the major specifications to consider when selecting white or colored paper.

Basic Weight	60 to 90 g/m ²
Cut Edge Conditions	Cut with sharp blades, no visible frayed edges
Finishing Dimensions	±0.8 mm of nominal, corners 90° ±0.2°
Grain	Long grain
Moisture Content	4% to 6% by weight
Opacity	84% minimum
Packing	Polylaminated moisture-proof ream wrap
Sizes	Letter : 216 mm x 279 mm A4 : 210 mm x 297 mm Legal : 216 mm x 356 mm
Type	Cut sheet
Wax Pick	304.8 mm minimum (Dimension)



Note: It is possible that paper could meet all of the specifications listed above and still not print well because of the variations in paper manufacturing. Therefore, we recommend that you test paper thoroughly before purchasing.

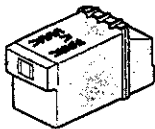
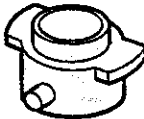
Options and Supplies

Please contact your local Panasonic dealer for availability.

A. Options:

Order No.	Picture	Description
UE-410005		Expansion IC Memory Card, 512KB
UE-410006		Expansion IC Memory Card, 1MB
UE-410007		Expansion IC Memory Card, 2MB

B. Supplies:

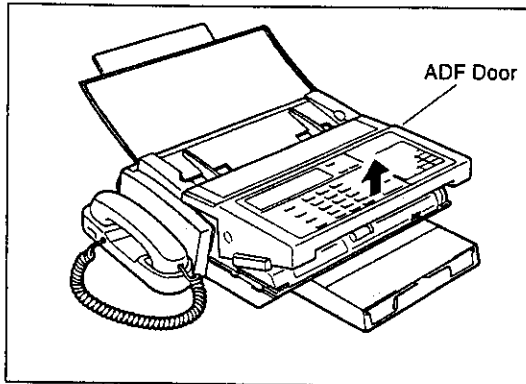
Order No.	Picture	Description
PC-60BK		Print Cartridge
FX-13-2P		Verification Stamp

Options and Supplies

Installing Memory Card

Before installation begins, make sure that there is no document file stored in the memory. You may confirm by print out a File List (see page 67). When the memory card is installed, the machine will initialize the document memory, all contents stored in the document memory will be lost.

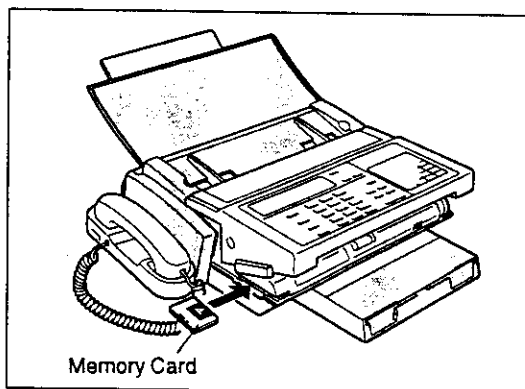
1



① Turn the Power Switch to the "O" (OFF) position.

② Open the ADF Door.

2



① Insert the Memory Card into the card slot with the Panasonic logo facing up.

② Close the ADF Door.

3

Turn the Power Switch to the "I" (ON) position. Print out the Fax Parameter List (see page 79) and confirm the memory size on Fax Parameter No. 53. (see page 36)

311

Glossary

ABBR. No. (Abbreviated Number)	The ability to store full phone numbers into the dialer and then utilizing a short series of keystrokes to speed dial that number in the future.
ADF (Automatic Document Feeder)	The mechanism that delivers a stack of document pages to the scanner one page at a time.
Auto print reduction	The method of automatically reducing a received document so that it can be printed onto a standard size piece of plain paper. For example, your machine will reduce an incoming legal size page to 75% of its original size so it could fit on a letter size page.
BPS (Bits Per Second)	The amount of data that is transmitted over the phone line. Your machine can start at 9600 BPS and automatically steps down to 7200, 4800, 2400 BPS depending on the phone line condition and the receiving machines capabilities.
C.C.I.T.T.	Consultative Committee on International Telegraph and Telephone. This organization has presently developed four groups of industry standards that insure facsimile compatibility.
CCITT Test Chart No.1	An industry standard document that allows comparisons of transmission speeds and capabilities of facsimile machines.
Character ID	A programmed proprietary code name that allows up to 16 alphanumeric characters identifying your facsimile machine.
Character keys	The keys that are used to enter letters and symbols for various programming functions.
Coding scheme	The data compression method used by facsimile machines. Your machine utilized Modified Huffman (MH), Modified Read (MR), and Modified Modified Read (MMR) coding schemes.
DDD (Direct Distance Dialing)	A telephone service that allows unassisted dialing, no operator assistance is required.
Deferred Polling	The ability to retrieve documents from other stations at a later time.
Deferred Transmission	The ability to send documents to other stations at a later time.
Direct Dialing	The method of dialing where you enter the entire telephone number through the keypad.
Directory Sheet	The list that contains the station names that are programmed into your unit.
DTMF (Dual Tone Multi-Frequency)	Dialing method that sends a different set of frequencies for each digit of the telephone keypad. Commonly refers to touch tone dialing.
ECM (Error Correction Mode)	The ability to correct transmission errors as detected during the transmitting phone call.

Glossary

FAX Access code	A 4-digit programmable code that prevents unauthorized operation of your Fax.
FAX Parameter List	The list that contains the home FAX parameters settings that you have programmed into your machine.
FAX/TEL Auto Switching	The ability to share a single telephone line for both fax and voice usage.
File	A task that has been stored into the memory of your unit. Examples are deferred transactions.
Fixed print reduction	The method that allows you to determine one reduction rate, such as 75%, for all incoming documents.
FUNCTION	The control panel key that will be utilized to begin an operation or configuration of a feature.
G3 mode (Group 3)	Refers to the standards and transmission capabilities of the current generation of facsimile machines.
Group dialing	The ability to program many telephone numbers into a single station so that many locations can be dialed in sequence utilizing a single keystroke.
HALFTONE	A scanning technique to distinguish levels of gray from black and white. Your machine can detect up to 64 levels of gray in halftone mode.
Handshaking	The exchange of a group of control signals that communicate between the transmitter and receiver. These signals determine the condition at which communication can occur.
Header	A row of information that is transmitted by the sending machine and printed on the top each page by the receiving unit. This identifies the transmitting unit and information about the transmission, such as time and date.
ID	A programmable address of up to 20 digits identifying your machine.
Image memory capacity	This signifies the amount of memory available in your unit capable of storing pages of documents. All page units of measure are based using the CCITT Test Chart No.1.
Individual Transmission Journal	A report that is printed by the transmitting unit stating information regarding the last document transaction.
Information code	A code that is internally generated by your Fax stating a specific operational error or machine failure.
Journal	A report that is printed by your unit listing the last 32 transmitting and receiving transactions.

Glossary

Keypad	A group of numeric keys located on your control panel.
LCD	Liquid Crystal Display. The display area on your machine.
LOGO	Your programmed company name or identification up to 25 alphanumeric characters.
Memory Transmission	The documents are scanned into memory before actual connection to the phone line for transmission.
Modem	A device that converts signal from your fax machine into signals that can be transmitted over telephone lines.
Multi-station transmission	The ability to broadcast the same set of documents to a programmed number of locations.
Multi-file transmission	The ability to store many files into your machines memory before actual telephone connection occurs.
Off-hook dialing	The direct dialing of a telephone number with the handset out of the cradle or "off the hook."
On-hook dialing	The direct dialing of a telephone number with the handset in the cradle or "on the hook."
One-Touch dialing	The ability to dial an entire telephone number by pressing one key.
ORIGINAL	Signifies the scanning sensitivity in terms of lightness and darkness of your original transmitting pages.
Panasonic Super Smoothing	An electronic image enhancement (Panasonic Super Smoothing) that will create a particular pattern for the improvement of copy quality.
Polling	The ability to retrieve a document from another facsimile machine.
Polling password	A 4-digit programmed code that enables the security of a document being polled.
Power Failure Report	A report that contains information on the last transaction that took place during a power outage. (This prints only when the memory back-up battery has been discharged.)
Print reduction modes	The methods used to determine how an incoming document will be reduced to print onto the paper loaded in your machine.
PSTN	Public Switched Telephone Network. Network of interconnected switching equipment and transmission facilities.
Remote Reception	A function that allows you to activate your fax machine to receive from an extension phone. You may transfer an incoming call to your fax machine from an extension phone by pressing the "*" key twice on a touch tone phone.

Glossary

RESOLUTION	Relates to the number of dots scanned and printed per certain square. The quality of the image increases as the number of dots per certain square increases.
Selective reception	A function that can be set so that your unit will receive from only those machines programmed into your dialer.
Stored documents	Documents that have been scanned and now are stored in your machine's memory.
Substitute memory reception	Your machine's ability to store an incoming document into its memory, when it runs out of recording paper or toner.
TAM interface	A capability of your unit to be connected and operate with a Telephone Answering Machine(TAM).
User parameter	Programmed parameters that provide information to other stations. Examples are logo, character ID, ID Number, date and time.
Verification stamp	A user selectable transmission verification stamp can be placed on scanned documents that are successfully transmitted or stored in memory.

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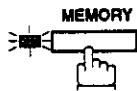
W

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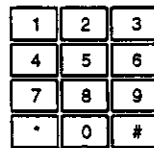
How to Send from Memory.



Set documents
face down.

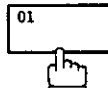


The lamp lights up.

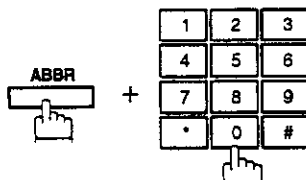


Enter telephone number.

or



or



Enter a 2-digit
code (01 to 34).

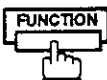


START

The document is
stored in memory.
Then, your machine
starts dialling the
number.

How to Print Journals and Reports.

32 Transaction Journal



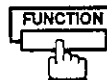
* PRINTING *
JOURNAL

One-Touch/ABBR List



* PRINTING *
ONE-TOUCH/ABBR.LIST

Fax Parameter List



* PRINTING *
FAX PARAMETER LIST

Individual XMT Journal



* PRINTING *
IND. XMT JOURNAL

Directory Sheet



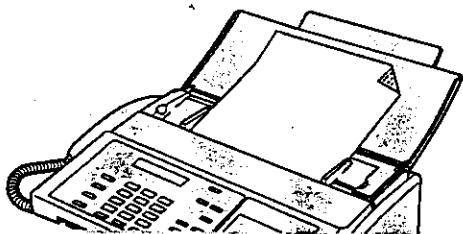
* PRINTING *
DIRECTORY SHEET

QUICK GUIDE UF-321

Panasonic®

How to Set Documents.

Set documents face down and adjust document guides.



You can set the documents on ADF (Automatic Document Feeder) up to 30 pages* at one time.

*: (Based on A4 size document, thickness 0.06 mm to 0.10 mm)

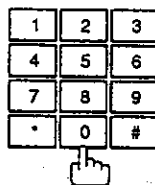
The display will show as below when the documents are set properly.

DOCUMENT SET
ENTER STATION 00%

How to Send Using Manual Dialling.



Set documents face down.



Enter telephone number.

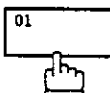
◇ START

Your machine starts dialling.

How to Send Using One-Touch/Abbreviated Key.



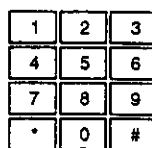
Set documents face down.



or



+



Enter a 2-digit code (01 to 34).

Your machine starts dialling.

Facsimile